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Rates of Sediment Production in the Western Gulf States

by
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S. B. Maner, Soil Conservationist
G. W. Renfro, Geologist
and
J. A. Ogle, Engineering Aid
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Introduction

This publication attempts to bring together a great mass of data on rates of sediment production in the Western Gulf States of Texas, Oklahoma, Arkansas, and Louisiana. These data have been gathered from published and unpublished reports representing reservoir-sedimentation surveys and suspended sediment measurements by various agencies.

This study provides a means for making general estimates of rates of sediment production by physiographic areas. Such estimates are required for designing and constructing various types of reservoirs by the Soil Conservation Service. The study also provides approximate information needed to answer questions from local agencies regarding the sediment load of a particular stream or the rate of capacity loss of a reservoir.

The publication itself is modeled after Brown's "Rates of Sediment Production in Southwestern United States" (2)[1] and Brune's "Rates of Sediment Production in Midwestern United States" (4).

Table 1 summarizes the sediment records used in this study by 26 physiographic areas. The number of sediment records in each physiographic area ranges from 1 to 40. Seventy-five records of suspended sediment measurement and 179 records of reservoir surveys, or a total of 254 sediment records, were used.

Information on each sediment record is given in table 2, and more detailed information is included for each record under Notes on Records Used. Figure 1 shows the location of the various sediment records by physiographic areas. The records are located in figure 1 (in the envelope in the back) and classified in table 2 on the basis of location of the drainage area, and not the location of the point of measurement. For example, the point of measurement for record No. 135, Clear Boggy Creek at Caney, Okla., is located in the West Cross Timbers, but the drainage area is almost wholly in the Sandstone Hills, with small portions in the Arbuckle Mountains and West Cross Timbers. Therefore it has been shown in figure 1 to be located in the Sandstone Hills.

TABLE 1.--Distribution of sediment records

Physiographic area	Suspended sediment measurements	Reservoir sedimentation surveys	Total
Arbuckle Mountains	1	0	1
Arkansas Valley	2	5	7
Basin and Range Province	0	4	4
Blackland Prairies	15	25	40
Cherokee Prairies	2	7	9
Coastal Prairie	3	0	3
East Cross Timbers	0	1	1
Edwards Plateau	1	5	6
Flint Hills	5	4	9
Forested Coastal Plain	2	38	40
Grand Prairie	1	2	3
High Plains	1	1	2
Lampasas Cut Plain	1	5	6
Llano Basin	0	4	4
Mississippi Alluvial Valley	1	0	1
Ouachita Mountains	9	2	11
Ozark Mountains	8	7	15
Palo Pinto Section	0	7	7
Pecos Valley	0	1	1
Pine Flats	1	0	1
Red Bed Plains	13	15	28
Red Hills	6	29	35
Sandstone hills	2	6	8
South Texas Coastal Plain	1	3	4
Southern Rocky Mountains	0	2	2
West Cross Timbers	0	6	6
Total	75	179	254

Because of a scarcity of sediment records in some physiographic areas in the four Western Gulf States, some sediment records from New Mexico, Kansas, and Mississippi were included. These additional records are not shown in figure 1, but are included in table 2 and in Notes on Records Used. The Mississippi records for the Forested Coastal Plain are particularly applicable to this physiographic area in Louisiana, where records are scarce. They do not necessarily apply to the Forested Coastal Plain in Texas, where rainfall and runoff are considerably lower.

[1] Numbers in parentheses refer to Literature Cited.

Future studies of one physiographic area at a time are anticipated. These will be in more detail to determine the relation between rates of sediment production and watershed causative factors, such as degree and length of slope, land use, conservation treatment, channel density, and relief. Such detailed studies will be similar to Gottschalk and Brune's for the Missouri Basin Loess Hills (24) and Maner and Barnes' for the Blackland Prairies (41). These studies will permit more accurate prediction of rates of sediment production and distribution of sediment deposits in proposed reservoirs than is possible with the present information. The Red Hills physiographic area of west Texas and Oklahoma probably will be the first studied in detail.

Acknowledgments

The following agencies furnished valuable data on suspended sediment measurements and reservoir-sedimentation surveys which have not yet been published:

Agricultural Research Service, Blacklands Experimental Watershed, Riesel, Tex.

U. S. Geological Survey, at Fayetteville, Ark.; Oklahoma City, Okla.; and Austin, Tex.

U. S. Corps of Engineers, at Tulsa, Okla.; Vicksburg, Miss.; Little Rock, Ark.; Galveston, Tex.; and Fort Worth, Tex.

U. S. Bureau of Reclamation, Amarillo, Tex.

State of Texas, Board of Water Engineers, Austin, Tex.

Most of the sediment records received from these agencies had not been summarized or evaluated. The methods used in summarizing and evaluating these data are not necessarily those used or recommended by the agencies concerned. In addition, a large number of records were obtained from previously published sources too numerous to mention (1-64).

Methods Used

Many of the older suspended load sampling records were not used because they were so computed as to give a systematic error of underestimation. In the data collected by Dole and Stabler in 1906 and 1907 (7 and 8), samples were collected almost daily, but were combined in approximately equal proportions at intervals of about 10 days, more or less, and the composite samples were analyzed. The percent of sediment by weight in the sample and the average discharge for the corresponding period were then used to compute the average daily suspended load. This method is based on arithmetical averaging and fails to give proper weight to the larger loads carried during higher discharge. It also consisted primarily of taking surface-water samples which are not representative of the total load of the stream and, therefore, contribute to further underestimation. Fortunately, because of the relative abundance of sediment records in this area, it was not necessary to use these less reliable records.

Tests have been made in 10 detailed reservoir surveys by the Soil Conservation Service for limits of error in capacity and sediment-volume determination. Each of these surveys was made by both the range and contour methods described by Eakin (10, pp. 153-168). The maximum difference obtained was less than 4 percent, and the average difference was less than 1 percent.

The accuracy of reservoir-reconnaissance surveys has been tested statistically by comparison with detailed surveys of the same reservoirs. The test consisted of 50 samples in which many varieties of reconnaissance methods were used. The results indicated that a specialist in these surveys, using the more reliable methods of survey, such as a range or grid system, should be able to measure sediment volume within 10 percent in 80 percent of the reservoirs on which reconnaissance surveys are made, with a maximum error of not over 30 percent. Only data from these more reliable types of reconnaissance surveys were used.

Reconnaissance surveys using only a few random shots throughout a reservoir may have an error up to 75 percent. Records from such surveys, which are numerous, were not used.

Because sediment records from larger drainage areas are not applicable in predicting rates of sediment accumulation in reservoirs built with Soil Conservation Service assistance, and because these records usually cover a number of physiographic areas, records for drainage areas larger than 1,000 square miles were generally excluded. For this reason, some sedimentation surveys by the Soil Conservation Service on reservoirs with large drainage areas have been omitted. These include Lake Corpus Christi, Corpus Christi, Tex., (sediment-contributing area 16,791 square miles), Lake Nasworthy, San Angelo, Tex., (sediment-contributing area 3,011 square miles), Possum Kingdom Lake, Graham, Tex., (sediment-contributing area 14,066 square miles), and Lake Hamilton, Hot Springs, Ark., (sediment-contributing area 1,413 square miles). All of these surveys have been described in published reports (3, 36, 37, and 45). Some exceptions were made for physiographic areas in which sediment records are scarce. The largest drainage area used, 2,071 square miles, was the San Antonio River above Falls City, Tex.

In order to reduce the error caused by abnormal seasonal runoff, no suspended-sediment or reservoir-survey records of less than 1 year's length were used. As the records obtained from reservoir-sedimentation surveys usually cover many years, the departure from normal runoff is not great, and the possible error from this cause is consequently unimportant.

Suspended-sediment records were in most cases summarized by the flow-duration curve and sediment-rating curve method. Usually at least 25 sediment samples covering a wide range of water discharges in different seasons of the year were required. Normally, 10 years of water records were used to compile the

flow-duration curve for each station. Suspended sediment records from the Blacklands Experimental Watershed, however, were computed by the sediment-hydrograph method, as very detailed sampling was available for these records.

Sediment records having uncertain or variable drainage areas were excluded. Thus, several records from the Mississippi Alluvial Valley physiographic area were excluded because at times they receive the diverted flow from other drainage areas. Typical are Macon Lake at Macon Lake, Ditch bayou at Lake Village, and Connerly bayou near Lake Village, all in Arkansas.

Records have also been excluded if there are sediment traps of doubtful trap efficiency upstream, particularly when the upstream trap has been in existence during only a part of the record.

Records on reservoirs with less than 30-percent estimated trap efficiency have also been excluded. In reservoirs of low trap efficiencies, it is more difficult to estimate the trap efficiency accurately. In reservoirs of very low trap efficiency there may be a net scour rather than sediment deposition during high discharge.

Using all of the records selected, the adjusted annual rate of sediment production in tons (table 2, column 15) was plotted against sediment-contributing area in square miles (table 2, column 4). There was considerable spread in the points on the graph, because of the many factors which were not evaluated, such as land use, slope, conservation practices, relief, channel density, and runoff. Nevertheless, there was a distinct trend toward lower rates of sediment production with increasing sizes of drainage area.

Units and Conversions Used in Table 2

Column 2--All physiographic areas used here and in figure 1 are based on the work of Jones (31).

Column 3--If this column contains the word "lake," "reservoir," "pond," or "tank," the record is taken from a reservoir-sedimentation survey. Otherwise it is a suspended-sediment record.

Column 4--Sediment-contributing areas are taken from the best available sources. First preference has been given to latest drainage-area figures published in U. S. Geological Survey Water Supply Papers and other publications (15, 16, 17, and 18). Also used were figures from Harbeck's "Reservoirs in the United States" (26); the State of Texas Board of Water Engineers Annual Reports (1); the Subcommittee on Sedimentation, Federal Inter-Agency River Basin Committee, Bulletins (60 and 61); the Arkansas-White-Red River Basins Inter-Agency Committee reports (64, 63); and the various published reports on sedimentation. For reservoirs, all sediment-contributing areas are exclusive of lake area. The drainage area of any upstream reservoir with more than an estimated 50-percent trap efficiency is excluded from reservoir and suspended-sediment records.

Column 5--This column applies only to reservoir-sedimentation surveys and shows the original storage capacity at spillway level.

Column 6--This column applies only to reservoir-sedimentation surveys and shows the original surface area at spillway level.

Columns 7-8-9--For many reservoirs it is difficult to establish the exact date of beginning of storage and sedimentation. For suspended-sediment measurements the exact sampling dates are usually available. The number of decimal places, in column 8, indicates the accuracy with which the length of record is known.

Column 10--This column applies only to reservoir-sedimentation surveys. Most of the specific weights have been estimated in most cases by comparing the capacity-inflow ratio of the reservoir, character of deposits, extent and frequency of reservoir drawdown, and geologic formations in the drainage area with similar characteristics of reservoirs where average specific weight has been determined (40).

Columns 11-12--These columns contain only records obtained from reservoir-sedimentation surveys. The data include not only the volume of sediment measured below spillway level, but also, where available and where caused by the reservoir, above-crest and up-valley deposits. These values ordinarily do not include the sediment that passes through the reservoir and over the spillway or through outlets in the dam. These losses are taken into account in the estimates in column 14.

Column 13--All values in this column for which there are no corresponding values in columns 11 or 12 were obtained from suspended-sediment measurements. For suspended-load measurements, these values do not include corrections for type of sampler used nor bed load. Type of sampler used and bed load are taken into account in column 15. The values shown for which corresponding figures are given in column 12 were derived by the following equation:

$$T = 21.78\,S(V)$$

Where

T = tons per square mile per year
S = specific weight, in pounds of dry solids per cubic foot of deposits in place
V = volume of deposits in acre-feet per square mile per year
21.78 = coefficient 43,560 (cubic feet per acre-foot) divided by 2,000 (pounds per ton).

Column 14--This column applies only to reservoir-sedimentation surveys and includes an adjustment for the amount of sediment lost over the spillway and through outlets in the dam. In estimating the trap efficiency of reservoirs the method based on capacity-inflow (C/I) ratio developed by Brune (6) was used.

Column 15--The values shown for which corresponding figures are given in column 14 were obtained from reservoir-sedimentation surveys, and were derived from column 14 by using the formula $T = 21.78\ S(V)$. Values shown for which there are no corresponding figures in column 14 were obtained from suspended-sediment measurements.

For suspended-sediment measurements, a correction was made for type of sampler used and for unmeasured bed load.

In making the adjustment for type of sampler, the D-49 sampler was used as a standard to convert the amounts of sediment measured with the older type samplers to the amounts which would have been measured with the D-49 sampler. The following conversion factors were used:

U. S. Geological Survey vertical depth-integrating bottle sampler	1.00
U. S. D-48 depth-integrating sampler (Hand)	1.00
U. S. P-46 point-integrating sampler	1.00
U. S. Department of Agriculture bottle sampler (Texas type)	1.05

These factors were derived from correspondence with the various agencies involved in suspended-sediment measurement.

Adjustments for unmeasured bed load were based on stream gradients, composition of bed material, character of stream bed at measurement section (such as flume), watershed soils and geology, and volume and character of discharge, particularly maximum annual storm discharge. In making the adjustments for bed load, it was estimated that the suspended load represented from 85 to 100 percent of the total sediment load of streams in various physiographic areas, depending upon the factors listed.

Notes on Records Used

The following pages give a short summary paragraph on each sediment record used. These paragraphs provide more detailed information for those who may be interested.

For reservoir-sedimentation surveys, the following are included where available:

1. Purpose of reservoir.
2. Source of information on sedimentation survey, and agency by whom survey was made.
3. Type of survey (range or contour, detailed or reconnaissance).
4. Number of ranges, sediment measurements, or contour interval.
5. Date of survey.
6. Number of sediment samples taken.
7. Upstream-sediment traps.
8. Method of operation of reservoir.

For suspended-sediment measurements, the following are included where available:

1. Source of information, and agency by whom measurements were made.
2. Period of sampling.
3. Number of samples taken per sampling.
4. Number of samplings.
5. Type of sampler used.
6. Method of sampling.
7. Unusual methods of computing data, where used.

(1)[2] San Bois Creek, Keota, Okla., (63, 60 and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 24, 1938, to April 27, 1942, by Tulsa District, Corps of Engineers, U. S. Army. Thirty-four samplings were used. Single samples taken in each of 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(2) Petit Jean Creek, Booneville, Ark., (63, 17, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 6, 1939, to September 30, 1953, by Little Rock District, Corps of Engineers. Two hundred and seventy-five samplings were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(3) Charleston Lake, Charleston, Ark., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Dec. 1953). Water-supply reservoir. Three ranges.

(4) Lake Booneville, Booneville, Ark., (20, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey made November 1935. Twelve ranges.

(5) Cove Lake, Paris, Ark., (27, 64, and unpublished data from SCS reconnaissance-sedimentation survey Dec. 3, 1953). Recreational reservoir. Five ranges.

(6) Lake Bailey, Morrilton, Ark., (64 and unpublished data from SCS reconnaissance survey May 1940). Recreational reservoir. Twenty-eight measurements.

(7) Lake Bennett, Conway, Ark., (22, 64). Recreational reservoir. Data from Soil Conservation Service detailed sedimentation surveys made November 1935 and November 1946.

(8) Mountain Fork River, Eagletown, Okla. (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from May 28, 1938, to May 12, 1948, by Tulsa District, Corps of Engineers. Eighteen samplings used in this study. Single sample taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler.

(9) South Fourche La Fave River, Hollis, Ark., (63, 17, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 19, 1941, to May 26, 1949, by Little Rock District, Corps of Engineers. Fifteen samplings were used. Single sample taken in each of 1 to 3 verticals usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(10) Dutch Creek, Waltreak, Ark., (63, 60, 61, and unpublished data by Corps of Engineers). Suspended load. Sampling done from April 24, 1946, to March 3, 1953, by Little Rock District, Corps of Engineers. Eight samplings covering a

[2] Number corresponds to number assigned to records in table 2.

TABLE 2.--Information on sediment records

Record No.	Physiographic area and stream	Point of measurement	Sediment contributing area	Original storage capacity	Surface area	Storage began	Length of sediment record	Period of sediment record	Specific weight of sediment	Total sediment at date of survey	Measured annual sediment production per square mile		Adjusted annual sediment production per square mile	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			Square miles	*Acre-feet*	*Acres*	*Date*	*Years*		*Pounds/cu.-ft.*	*Acre-feet*	*Acre-feet*	*Tons*	*Acre-feet*	*Tons*
	Arbuckle Mountains:													
17	Blue River	Blue, Okla.	477	--	--	--	14.22	1936-50	--	--	--	870	--	963
	Arkansas Valley:													
1	San Bois Creek	Keota, Okla.	346	--	--	--	3.80	1938-42	--	--	--	691	--	808
2	Petit Jean Creek	Booneville, Ark.	247	--	--	--	14.25	1939-53	--	--	--	632	--	739
6	Cedar Creek	Lake Bailey, Morrilton, Ark.	15	629	115	Sept. 1937	2.70	1937-40	[1] 60	27	0.66	862	0.89	1,163
5	Trib. to Six Mile Creek	Cove Lake, Paris, Ark.	10.66	2,205	152	May 1938	15.50	1938-53	[1] 60	65	.39	510	.41	536
7	East Fork River	Lake Bennett, Conway, Ark.	4.11	494	37	June 1935	11.50	1935-46	[1] 60	13	.28	366	.32	418
4	Trib. to Petit Jean Creek	Lake Booneville, Booneville, Ark.	2.57	289	18	Mar. 1929	6.75	1929-35	[1] 60	8	.45	588	.50	653
3	Trib. to Arkansas River	Charleston Lake, Charleston, Ark.	.93	325	66	Apr. 1937	16.66	1937-53	[1] 60	61	3.94	5,149	4.10	5,358
	Basin and Range Province:													
73	Madera Canyon	Aquja Reservoir, Toyahvale, Tex.	43	313	17	1930	10	1930-40	[1] 85	83	.21	389	.21	389
75	San Felipe Arroyo	Rattlesnake Detention Reservoir, Fabens, Tex.	2.75	195	37	July 1937	17	1937-54	87.8	19	.41	784	.46	880
74	San Felipe Arroyo	Cottonwood Detention Reservoir, Fabens, Tex.	2.34	417	88	July 1938	16	1938-54	82.4	39	1.11	1,992	1.23	2,207
76	San Felipe, Arroyo	Roberts Detention Reservoir, Fabens, Tex.	2.34	138	30	July 1937	17	1937-54	78.5	33	.85	1,453	.94	1,607
	Blackland Prairies:													
44	East Fork Trinity River	Rockwall, Tex.	840	--	--	--	6.61	1946-53	--	--	--	413	--	457
49	Mountain Creek	Mountain Creek Reservoir, Dallas, Texas.	274	37,520	3,586	Mar. 1937	9.70	1937-46	[1] 60	10,420	3.91	5,110	4.12	5,384
42	Big Elm Creek	Buckholts, Tex.	166	--	--	--	2.54	1934-36	--	--	--	2,269	--	2,388
51	White Rock Creek	White Rock Reservoir, Dallas, Tex.	97.1	18,158	1,254	1910	25	1910-35	49	3,882	1.60	1,708	1.67	1,782
41	Big Elm Creek	Temple, Tex.	68.5	--	--	--	2.29	1934-36	--	--	--	5,206	--	5,480
46	Pine Creek	Lake Crook, Paris, Tex.	51.6	11,487	1,291	Feb. 1923	13.10	1923-36	[1] 60	732	1.08	1,411	1.14	1,490
43	North Elm Creek	Ben Arnold, Tex.	30.3	--	--	--	2.00	1934-36	--	--	--	2,178	--	2,293
68	Cedar Creek	Greenville Club Lake, Greenville, Tex.	13.09	3,000	301	1922	15	1922-37	[1] 60	180	.92	1,202	.96	1,255
50	Bachmans Branch	Bachman Reservoir, Dallas, Tex.	10.3	2,300	125	1903	36	1903-39	[1] 60	805	2.17	2,836	2.26	2,953
237	Brushy Creek	Blacklands Experimental Watershed J, Riesel, Tex.	9.16	--	--	--	5	1939-43	--	--	--	1,135	--	1,192
54	King Creek	Terrell City Lake, Terrell, Tex.	8.71	2,219	313	Oct. 1921	28.25	1921-49	59.2	1,605	2.49	3,211	2.59	3,340
57	Elm Creek	Lake Halbert, Corsicana, Tex.	8.56	8,012	593	1921	28	1921-49	67.4	1,355	5.66	8,309	5.77	8,470
69	Cottonwood Creek	Cottonwood Reservoir, McKinney, Tex.	6.1	33	5	1912	10	1912-22	[1] 60	31	.51	666	1.06	1,385
56	Trib. to East Fork Trinity River	Murphy Lake, Crandall, Tex.	3.98	397	72	Oct. 1922	16.50	1922-39	[1] 60	259	3.94	5,149	4.33	5,658
52	Waxahachie Creek	Ennis Reservoir System, Ennis, Tex.	2.87	2,085	173	1895	55	1895-1950	45.25	173	2.60	2,562	2.65	2,612
53	Bachelor Creek	Terrell Club Lake, Terrell, Tex.	2.1	875	175	Aug. 1904	34.60	1904-39	[1] 60	96	1.30	1,699	1.34	1,751
238	Brushy Creek	Blacklands Experimental Watershed D, Riesel, Tex.	1.74	--	--	--	5	1939-43	--	--	--	856	--	899
48	Trib. to Elm Creek	Farmersville (New) Reservoir, Farmersville, Tex.	1.6	500	48	May 1935	3.80	1935-39	[1] 60	19	3.12	4,077	3.22	4,208
67	Unnamed	Lake Dawson, Dawson, Tex.	1.6	650	60	Apr. 1937	2	1937-39	[1] 60	13	8.10	10,585	8.35	10,912
55	King Creek	Kaufman Lake (old and new), Kaufman, Tex.	1.55	445	85	Dec. 1903	36	1903-39	[1] 60	163	3.00	3,920	3.09	4,038
65	Cottonwood Creek	Hubbard City Lake No. 4, Hubbard, Tex.	1.35	318	33	1917	32	1917-49	[1] 60	63	1.45	1,895	1.51	1,973
45	Trib. to Pine Creek	Lake Gibbons, Paris, Tex.	1.26	1,414	131	1900	36	1900-36	[1] 60	78	1.72	2,248	1.76	2,300
60	Trib. to Elm Creek	Lower Beaton Lake, Corsicana, Tex.	.82	319	56	1895	54	1895-1949	[1] 67.4	114	2.57	3,773	2.68	3,934
61	Unnamed	Odell Lake, Hubbard, Tex.	.55	75	8	July 1925	24	1925-49	[1] 60	22	1.71	2,235	1.80	2,352
59	Trib. to Elm Creek	Burke Neck Lake, Corsicana, Tex.	.54	181	29	1880	69	1880-1949	[1] 67.4	89	2.39	3,508	2.49	3,655
47	Trib. to Little River	Rogers Lake, Rogers, Tex.	.51	164	23	Sept. 1922	12	1922-34	[1] 60	37	6.12	7,998	6.31	8,246
62	Cottonwood Creek	Hubbard City Lake No. 1, Hubbard, Tex.	.5	110	11	1898	51	1898-1949	[1] 60	26	1.00	1,307	1.04	1,359
234	Trib. to Brushy Creek	Blacklands Experimental Watershed Y, Riesel, Tex.	.483	--	--	--	5	1939-43	--	--	--	1,690	--	1,755
58	Trib. to Elm Creek	Magnolia Lake, Corsicana, Tex.	.43	756	104	1885	64	1885-1949	[1] 67.4	97	3.53	5,182	3.60	5,285
239	Trib. to Brushy Creek	Blacklands Experimental Watershed W-1, Riesel, Tex.	.275	--	--	--	9	1939-47	--	--	--	5,755	--	6,043
240	Trib. to Brushy Creek	Blacklands Experimental Watershed Y-2, Riesel, Tex.	.206	--	--	--	4	1944-47	--	--	--	1,252	--	1,325
241	Trib. to Big Creek	Blacklands Experimental Watershed W-2, Riesel, Tex.	.203	--	--	--	9	1939-47	--	--	--	2,370	--	2,489
64	Cottonwood Creek	Hubbard City Lake No. 3, Hubbard, Tex.	.14	104	13	1913	36	1913-49	[1] 60	14	2.86	3,737	2.92	3,816
66	Cottonwood Creek	Hubbard City Lake No. 5, Hubbard, Tex.	.10	45	4	1925	24	1925-49	[1] 60	7	3.00	3,920	3.08	4,025
242	Brushy Creek	Blacklands Experimental Watershed A, Riesel, Tex.	.066	--	--	--	5	1939-43	--	--	--	534	--	561
243	Trib. to Big Creek	Blacklands Experimental Watershed W-8, Riesel, Tex.	.063	--	--	--	3	1939-41	--	--	--	4,136	--	4,343
244	Trib. to Brushy Creek	Blacklands Experimental Watershed Y-10, Riesel, Tex.	.033	--	--	--	3	1939-41	--	--	--	2,214	--	2,325
245	Trib. to Brushy Creek	Blacklands Experimental Watershed Y-6, Riesel, Tex.	.033	--	--	--	4	1940-43	--	--	--	5,290	--	5,555
246	Trib. to Brushy Creek	Blacklands Experimental Watershed W-10, Riesel, Tex.	.031	--	--	--	4	1940-43	--	--	--	6,301	--	6,616
63	Cottonwood Creek	Hubbard City Lake No. 2, Hubbard, Tex.	.03	36	3	1912	37	1912-49	[1] 60	3	3.00	3,920	3.06	4,000

	Cherokee Prairies:													
142	Caines Creek	Krebs, Okla	582	--	--	--	7.48	1944-51	--	--	--	541	--	599
143	Dirty Creek	Warner, Okla	229	--	--	--	6.32	1940-46	--	--	--	1,494	--	1,573
144	Dog Creek	Lake Claremore, Claremore, Okla	55.7	4,258	475	May 1931	8.40	1931-39	51.17	358	.75	836	.83	925
147	Bull Creek	Lake McAlester, McAlester, Okla	28.2	18,397	1,592	1919	22	1919-41	[1] 60	888	1.43	1,869	1.47	1,931
148	Peacemble Creek	Brown Lake, McAlester, Okla	19.0	4,924	637	May 1943	9.20	1943-52	[1] 60	335	1.83	2,391	1.91	2,496
149	Fourche Maline Creek	Lake Carleton, Wilburton, Okla	19.7	570	52	1933	14	1933-47	[1] 60	58.5	.21	274	.29	379
146	Trib. to Pecan Creek	Taft Lake, Taft, Okla	7.2	580	54	Sept. 1937	10	1937-47	[1] 60	6.4	.29	379	.30	394
150	Happy Creek	State Fish Hatchery Lake, Claremore, Okla	1.20	34	4.2	1934	5	1934-39	[1] 60	1.1	.18	235	.23	301
145	Trib. to Pryor Creek	Kennamer Lake, Chelsea, Okla	.27	28	4	Oct. 1923	16	1923-39	[1] 60	1.5	.3	457	.37	484
	Coastal Prairie:													
230	Buffalo Bayou	Houston, Tex	362	--	--	--	7.65	1946-54	--	--	--	509	--	564
232	Brays Bayou	Houston, Tex	100	--	--	--	7.51	1946-54	--	--	--	273	--	302
231	White Oak Bayou	Houston, Tex	92	--	--	--	7.43	1947-54	--	--	--	758	--	840
	East Cross Timbers:													
28	Trib. to West Fork Trinity Rivar	Variety Club Lake, Bedford, Tex	.29	33	8	July 1942	7.80	1942-50	[1] 60	5	.39	2,993	2.40	3,136
	Edwards Plateau:													
35	Pedernales River	Johnson City, Tex	947	--	--	--	10.17	1942-52	--	--	--	1,474	--	1,632
36	Medina River	Medina Lake, San Antonio, Tex	578	274,065	5,647	Mar. 1913	35.20	1913-48	75	8,990	.44	719	.45	735
250	Trib. to South Concho River	X.Q.Z. Ranch Pond, San Angelo, Tex	1.53	276	40.5	May 1937	18.2	1937-55	63.65	26	.03	1,289	.95	1,317
249	Cibolo Creek	Thornton Lake, Boerne, Tex	1.52	142.4	11.66	Sept. 1952	2.43	1952-55	[1] 66	7.26	1.64	2,357	1.69	2,429
247	Trib. to Llano River	Rudder Pond, Hext, Tex	1.34	11.96	2.29	Aug. 1951	3.98	1951-55	[1] 66	.51	.09	129	.11	158
248	Trib. to Devils River	Fress Pond, Sonora, Tex	.43	7.31	3.17	Dec. 1944	10.74	1944-55	69.60	.52	.11	167	.12	182
	Flint Hills:													
197	Caney River	Elgin, Kans	445	--	--	--	11.22	1939-51	--	--	--	1,071	--	1,186
71	Caney Creek	Copan, Okla	424	--	--	--	6.44	1944-51	--	--	--	543	--	601
70	Bird Creek	Avant, Okla	364	--	--	--	5.61	1945-51	--	--	--	1,057	--	1,113
199	Hominy Creek	Skiatook, Okla	340	--	--	--	7.32	1944-51	--	--	--	983	--	1,088
198	Bird Creek	Pawhuska, Okla	100	--	--	--	1.27	1944-45	--	--	--	364	--	403
196	Satchel Creek	Lake Eldorado, Butler County, Kans	34.3	3,213	362	Apr. 1928	9	1928-37	66	131	.43	618	.44	632
193	Kahola Creek	Lake Kahola, Dunlap, Kans	15.7	6,603	--	Apr. 1937	2.40	1937-39	[1] 60	169	4.58	5,985	4.67	6,103
195	Trib. to Rock Creek	Parish Pond, Morris County, Kans	.20	9	--	1933	6	1933-39	[1] 60	.7	.51	666	.54	706
194	Trib. to Elm Creek	Chase Pond, Morris County, Kans	.02	4	--	1879	60	1879-1939	[1] 60	.8	.65	849	.66	862
	Forested Coastal Plain:													
151	Navasora River	Easterly, Tex	949	--	--	--	10.75	1942-52	--	--	--	271	--	317
205	Coldwater River	Arkabutla Reservoir, Arkabutla, Miss	948	525,300	33,400	Aug. 1941	6.3	1941-47	[1] 60	3,760	.63	823	.65	849
152	Lavaca River	Edna, Tex	887	--	--	--	7.08	1945-52	--	--	--	175	--	204
153	Corney Creek	Corney Lake, Homer, La	428	8,550	1,900	May 1938	3.50	1938-41	[1] 60	316	.21	274	.34	444
158	Coon Creek	Koon Kreek Club (Big Lake) Athens, Tex	62.7	5,000	650	1926	13	1926-39	[1] 60	57	.07	91	.08	105
159	Coon Creek	Koon Kraek Club (Old Lake) Athens, Tex	18.8	400	130	1902	37	1902-39	[1] 60	16	.02	26	.03	39
160	Cow Creek	Kerens City Lake, Kerens, Tex	6.28	630	89	Sept. 1935	18.8	1935-54	54.49	76	.64	759	.70	831
154	Trib. to McKinney Bayou	Texarkana Lake, Texarkana, Tex	5.1	2,792	200	June 1928	10	1928-38	[1] 60	84	1.64	2,143	1.71	2,235
157	Trib. to W. Fork San Jacinto River	Elkins Lake, Huntsville, Tex	2.95	856	85	1930	20	1930-50	[1] 60	44	.72	941	.75	980
162	Wolf Creek	Wolf Creek Reservoir, Palestine, Tex	2.50	222	30	1919	20	1919-39	[1] 60	23	.46	601	.51	666
163	Simmons Branch	Grand Saline Reservoir, Grand Saline, Tex	2.02	531	64	Feb. 1925	13.23	1925-38	38.7	22	.82	691	.85	717
164	Magbee Creek	Wills Point Reservoir, Wills Point, Tex	1.75	396	51	Sept 1914	23.6	1914-38	60.1	121	2.93	3,835	3.07	4,019
155	Trib. to Cedar Creek	Kemp City Reservoir, Kemp, Tex	1.42	376	43	June 1926	12.8	1926-39	[1] 60	78	4.29	5,606	4.49	5,868
166	Trib. to Harrican Creek	Loring Lake, Zwolle, La	.95	663	64	Sept. 1928	26	1928-54	85.08	40	1.65	3,057	1.70	3,150
221	Trib. to Pumpkin Creek	Dr. Bramlett Pond, Oxford, Miss	.81	227	34.6	Jan. 1937	14.2	1937-51	[1] 37.4	12.9	1.12	912	1.20	977
215	Trib. to Camp Creek	Lake Woodland, Olive Branch, Miss	.48	94	15.9	Feb. 1945	6	1945-51	39.9	15.9	5.52	4,797	6.13	5,327
218	Trib. to Camp Creek	Lake Shahkoka, Olive Branch, Miss	.36	306	31.4	Jan. 1934	17	1934-51	61.7	54.7	8.79	11,812	9.16	12,309
156	Trib. to Cedar Creek	Mabank City Lake, Mabank, Tex	.33	295	23	1926	13	1926-39	[1] 60	24	5.51	7,200	5.65	7,383
165	Trib. to Lewis Creek	Jenkins Pond, Mansfield, La	.32	157	23	Sept. 1925	29	1925-54	68.6	7	.78	1,165	.80	1,195
161	Trib. to Cedar Creek	Wortham Municipal Reservoir, Wortham, Tex	.28	275	20	1922	17	1922-39	[1] 60	20	4.21	5,502	4.30	5,619
220	Trib. to Coldwater River	C. S. Hurdle Pond, Slayden, Miss	.23	36.4	6.33	Dec. 1946	4.1	1946-51	62.9	9.82	10.3	14,111	11.84	16,220
209	Trib. to Mississippi River	Gayoso Lake, Horn Lake, Miss	.205	58.7	9.56	Feb. 1946	5	1946-51	51.9	5.76	3.13	3,538	3.37	3,809
207	Trib. to Arkabutla Creek	A. L. Rodman Pond, Arkabutla, Miss	.146	30.5	6.69	Sept. 1945	5.5	1945-51	[1] 49.9	1.57	1.95	2,119	2.12	2,304
222	Trib. to Starter Creek	Henry W. Ramsey Pond, Oxford, Miss	.129	31	5.49	Jan. 1933	18.2	1933-51	41.8	6.20	2.65	2,413	2.91	2,649
214	Trib. to Red Bank Creek	C. L. Patton Pond, Warsaw, Miss	.095	15.9	4.13	Feb. 1942	9	1942-51	66.8	3.84	4.48	6,518	5.21	7,580
217	Red Bank Creek	Lee Johnson Pond, Holly Springs, Miss	.078	17.8	3.12	Sept. 1948	7.3	1948-51	76.1	2.99	16.6	27,514	18.24	30,232
203	Trib. to Coldwater River	E. H. Honnasucker Pond, Sladen, Miss	.06	12	1.80	Jan. 1947	4	1947-51	60.1	3.95	16.5	21,598	18.75	24,543
206	Trib. to Hurricane Creek	Charles Dockery Pond, Eudora, Miss	.057	23	4.95	Jan. 1946	5.2	1946-51	[1] 43.7	1.06	3.6	3,426	3.79	3,607
219	Trib. to Coldwater River	Agnes Jones Pond, Holly Springs, Miss	.045	8.80	1.73	Oct. 1946	4.3	1946-51	67.3	3.16	16.3	23,892	18.52	27,147
224	Trib. to Hudson Creek	C. D. Williams Pond, Oxford, Miss	.042	9.93	2.03	1928	23	1928-51	55.7	4.13	4.31	5,229	4.84	5,872
208	Trib. to Tallahatchie Creek	A. S. Kyle Pond, Batesville, Miss	.04	17.4	3.76	Mar. 1945	6	1945-51	52	.75	3.14	3,556	3.29	3,726
212	Trib. to Byhalia Creek	Fletcher Hurdle Pond (North) Victoria, Miss	.039	4.61	1.09	Feb. 1947	4	1947-51	63	2.27	14.6	20,033	18.02	24,726
210	Trib. to Guffawa Creek	C. C. Stevenson Pond, Holly Springs, Miss	.032	6.47	1.40	Aug. 1948	2.7	1948-51	78.8	2.25	26.0	44,623	29.55	50,716
211	Trib. to Byhalia Creek	Fletcher Hurdle Pond (South) Victoria, Miss	.028	5.48	1.17	Feb. 1947	4	1947-51	83.1	2.14	19.2	34,750	22.33	40,415
202	Trib. to Pidgeon Roost Creek	Ben T. Smith Pond, Holly Springs, Miss	.026	3.77	.89	July 1947	3.70	1947-51	67.6	.52	5.30	7,803	6.16	9,070
223	Trib. to Yocona River	R. X. Williams Pond, Taylora, Miss	.021	4.48	1.84	1946	4.5	1946-51	47.7	1.94	20.5	21,298	21.03	21,848
216	Trib. to Coldwater Creek	P. T. Alexander Pond, Holly Springs, Miss	.013	2.46	.70	Aug. 1942	8.5	1942-51	84.2	1.78	16.3	29,892	16.80	30,809
213	Trib. to Red Banks Creek	G. B. Langston Jr. Pond, Warsaw, Miss	.012	12.3	2.60	Feb. 1916	35	1916-51	63.3	2.73	6.72	9,265	7.00	9,651
204	Trib. to Chewalla Creek	O. P. White Pond, Holly Springs, Miss	.009	1.46	.48	1947	3.3	1947-51	63.7	.39	13.1	18,175	15.23	21,130
225	Trib. to Tobitubby Creek	Ben O. Pettis Pond, Oxford, Miss	.007	1.63	.51	1916	35	1916-51	58.7	.57	2.39	3,056	2.69	3,439
	Grand Prairie:													
26	Elm Fork Trinity River	Lake Dallas, Dallas, Tex	1167	180,759	10,903	Feb. 1928	10.5	1928-38	53	13,687	1.13	1,304	1.18	1,362
25	Denton Creek	Roanoke, Tex	621	--	--	--	4.62	1946-51	--	--	--	850	--	941
27	Trib. to West Fork Trinity River	Lake Erie, Handley, Tex	1.01	270	28	1899	40	1899-1939	[1] 60	66	1.63	2,130	1.68	2,195

TABLE 2.--Information on sediment records--Continued

Record No.	Physiographic area and stream	Point of measurement	Sediment contributing area	Original storage capacity	Surface area	Storage began	Length of sediment record	Period of sediment record	Specific weight of sediment	Total sediment at date of survey	Measured annual sediment production per square mile		Adjusted annual sediment production per square mile	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			Square-miles	*Acre-feet*	*Acres*	*Date*	*Years*		*Pounds/cu.-ft.*	*Acre-feet*	*Acre-feet*	*Tons*	*Acre-feet*	*Tons*
	High Plains:													
191	Ute Creek	Bueyeros, N. Mex.	520	--	--	--	1.52	1949-51	--	--	--	788	--	927
229	Wolf Creek	Lake Fryer, Perryton, Tex.	108	844	102	1939	7.40	1939-47	[1] 60	127	.16	209	.17	222
	Lampasas Cut Plain:													
31	Bosque River	Lake Waco, Waco, Tex.	1,658	39,378	2,801	Apr. 1930	17.7	1930-47	58.5	17,406	.59	752	.81	1,032
29	San Gabriel River	Circleville, Tex.	602	--	--	--	5.40	1924-29	--	--	--	564	--	698
30	Two Mile Creek	Hamilton City Lake, Hamilton, Tex.	11.9	610	53	June 1923	17.75	1923-41	[1] 60	50	.24	314	.26	340
33	Brown Creek	Lake Merritt, Goldthwaite, Tex.	11.5	962	98	May 1917	23	1917-40	43	107	.40	375	.42	393
34	Salt and Emory Creek	Lometa Reservoir, Lometa, Tex.	4.60	759	86	1912	29	1912-41	[1] 60	27	.20	261	.21	274
32	Bee Creek	Meredian Lake, Meredian, Tex.	3.20	723	61	1934	14	1934-48	[1] 60	31	.69	902	.72	941
	Llano Basin:													
37	Trib. to Brady Creek	J. S. Wall Pond, Brady, Tex.	.35	13	3	1927	14	1927-41	[1] 60	.78	.16	209	.17	222
40	West Bull Creek	Moss Ranch Stock Pond (West) Llano, Tex.	.19	9.34	6	1903	38	1903-41	[1] 60	.15	.02	26	.021	27
38	Trib. to Sandy Creek	Helms Tank, Llano, Tex.	.14	12	4	1916	25	1916-41	[1] 60	.43	.12	157	.13	170
39	South Bull Creek	Moss Ranch Stock Pond (South) Llano, Tex.	.07	4.65	2	1909	32	1909-41	[1] 60	.16	.07	91	.073	95
	Mississippi Alluvial Valley:													
189	Big Bayou Meto	Stuttgart, Ark.	560	--	--	--	1.98	1951-53	--	--	--	88	--	93
	Ouachita Mountains:													
13	Poteau River	Wister, Okla.	1,015	--	--	--	11.72	1938-50	--	--	--	270	--	316
8	Mountain Fork River	Eagletown, Okla.	784	--	--	--	9.96	1938-48	--	--	--	303	--	353
190	Petit Jean Creek	Danville, Ark.	741	--	--	--	10.36	1940-50	--	--	--	246	--	288
18	Little River	Wright City, Okla.	670	--	--	--	4.08	1945-49	--	--	--	443	--	518
228	Fourche LaFave River	Nimrod Lake, Nimrod, Ark.	652	336,000	18,300	May 1942	7.90	1942-50	[1] 62	608	.12	162	.125	169
9	South Fourche LaFave River	Hollis, Ark.	211	--	--	--	8.11	1942-51	--	--	--	137	--	160
12	Poteau River	Cauthron, Ark.	200	--	--	--	10.87	1939-50	--	--	--	274	--	320
11	Fourche Maline River	Red Oak, Okla.	122	--	--	--	10.87	1940-51	--	--	--	242	--	282
14	Saline River	Dierks, Ark.	122	--	--	--	8.94	1938-47	--	--	--	705	--	824
10	Dutch Creek	Waltreak, Ark.	74	--	--	--	6.87	1946-53	--	--	--	124	--	144
15	Alum Fork of Saline River	Lake Winona, Little Rock, Ark.	41.3	34,533	1,085	Oct. 1937	12.60	1937-50	[1] 50	193	.37	403	.38	414
	Ozark Mountains:													
226	Elk River	Tiff City, Mo.	872	--	--	--	5.91	1944-50	--	--	--	661	--	732
167	Buffalo River	St. Joe, Ark.	825	--	--	--	12.02	1940-52	--	--	--	572	--	634
168	Strawberry River	Poughkeepsie, Ark.	476	--	--	--	14.39	1939-53	--	--	--	797	--	882
175	Spavinau Creek	Lake Spavinaw, Spavinaw, Okla.	397.2	31,686	1,800	Apr. 1924	11	1924-35	[1] 60	1,177	.27	353	.30	392
172	Mulberry River	Mulberry, Ark.	372	--	--	--	13.03	1940-53	--	--	--	467	--	517
170	So. Fork Little Red River	Clinton, Ark.	316	--	--	--	13.07	1940-53	--	--	--	141	--	156
171	Middle Fork Little Red River	Shirley, Ark.	294	--	--	--	14.08	1939-53	--	--	--	523	--	579
173	Strawberry River	Evening Shade, Ark.	225	--	--	--	13.74	1939-53	--	--	--	523	--	579
169	Piney Fork Strawberry River	Evening Shade, Ark.	99	--	--	--	14.24	1939-53	--	--	--	1,296	--	1,436
176	Big Greenleaf Creek	Greenleaf Lake, Muskogee, Okla.	79.84	13,005	900	Mar. 1937	4.70	1937-41	[1] 60	177	.47	614	.50	653
180	Jack and Jones Creek	Lake Fort Smith, Mountainburg, Ark.	64.00	13,810	650	Feb. 1936	4.20	1936-40	[1] 60	83	.31	405	.33	431
177	Trib. to Illinois River	Lake Wedington, Fayetteville, Ark.	3.92	1,260	90	July 1937	10.10	1937-47	[1] 60	11	.28	366	.30	392
174	Trib. to Pryor Creek	Lake Scarbow, Pryor, Okla.	3.04	123	22	Oct. 1931	8	1931-39	[1] 60	11	.46	601	.55	719
179	Wilson Creek	Wilson Reservoir, Fayetteville, Ark.	2.30	522	29	Oct. 1930	9.75	1930-40	[1] 60	5.1	.23	301	.24	314
178	Leatherwood Creek	Eureka Springs Reservoir, Eureka Springs, Ark.	.8	94	6	1893	47	1893-1940	[1] 60	4.3	.11	144	.12	157
	Palo Pinto Section:													
186	West Fork Trinity River	Bridgeport Reservoir, Bridgeport, Tex.	1,051	524,000	11,400	1932	10.8	1932-43	[1] 60	8,760	.79	1,032	.80	1,045
182	Leon River	Lake Leon, Eastland, Tex.	1,225	1,637	175	June 1920	20.75	1920-41	[1] 60	362	[1] .03	39	.04	52
187	Rock Creek	Lake Mineral Wella, Mineral Wells, Tex.	73.4	10,741	628	1922	19.5	1922-41	[1] 60	1,709	1.19	1,555	1.24	1,620
183	Flint Creek	Lake Eddleman, Graham, Tex.	41.4	6,583	373	Feb. 1929	25.25	1929-54	49.19	666	.64	686	.66	707
181	North Fork Leon River	Lake Eastiana, Eastland, Tex.	31	6,125	644	Mar. 1920	21	1920-41	[1] 60	478	.73	954	.75	980
185	Trib. to Pecan Bayou	White Tank, Brownwood, Tex.	.80	4.5	1.6	May 1936	4.8	1936-41	[1] 60	.89	.24	314	.33	431
184	Trib. to Horse Creek	Lake Miller, San Saba, Tex.	.38	83	19	Sept. 1913	27.5	1913-41	[1] 60	7.5	.71	928	.73	954
	Pecos Valley:													
72	Trib. to Toyah Creek	Lower Parks Reservoir, Balmorhea, Tex.	259	6,750	591	1939	8.4	1939-48	[1] 70	402	.18	274	.18	274
	Pine Flats:													
16	Bayou Cocodrie	Clearwater, La.	240	--	--	--	1.0	1952-53	--	--	--	325	--	382
	Red Bed Plains:													
88	Little River	Sasakwa, Okla.	865	--	--	--	7.69	1943-51	--	--	--	1,246	--	1,384
84	Cache Creek	Walters, Okla.	630	--	--	--	12.71	1938-51	--	--	--	501	--	586
89	Black Bear Creek	Pawnee, Okla.	576	--	--	--	8.90	1944-53	--	--	--	745	--	919
85	Little Wichita River	Archer City, Tex.	496	--	--	--	6.73	1938-45	--	--	--	813	--	950
82	Little River	Tecumseh, Okla.	456	--	--	--	7.15	1944-51	--	--	--	2,774	--	3,244
86	Pond Creek	Ft. Cobb, Okla.	320	--	--	--	6.32	1943-49	--	--	--	666	--	740
87	Caddo Creek	Ardmore, Okla.	280	--	--	--	13.36	1936-49	--	--	--	1,708	--	1,997
90	Little River below Hog Creek	Norman, Okla.	256	--	--	--	1.15	1953-54	--	--	--	441	--	490
78	Stillwater Creek	Stillwater, Okla.	165	--	--	--	3.25	1934-37	--	--	--	347	--	386
83	Rush Creek	Purdy, Okla.	139	--	--	--	13	1940-53	--	--	--	11,741	--	13,727
81	Little River	Norman, Okla.	120	--	--	--	1.16	1952-54	--	--	--	1,189	--	1,321
79	Council Creek	Stillwater, Okla.	30.2	--	--	--	3.76	1934-37	--	--	--	875	--	972

96	South Branch of Deer Creek....	Shawnee Lake, Shawnee, Okla.....	18.9	24,568	1,334	Aug. 1935	12.3	1935-47	[1] 60	[1] 752	3.23	4,221	3.30	4,312
236	Cow Creek.....	Perry City Lake, Perry, Okla.....	16.14	4,371	338	June 1937	17.9	1937-55	83.5	385	1.33	2,419	1.36	2,473
80	West Fork Brush Creek.....	Stillwater, Okla.....	13.1	--	--	--	3.25	1934-37	--	--	--	540	--	600
94	Trib. to Cottonwood Creek.....	Guthrie Reservoir, Guthrie, Okla.....	12.95	3,064	226	Oct. 1920	14.5	1920-35	[1] 60	[1] 456	2.96	3,868	3.02	3,947
97	Fitzpatrick Creek.....	Lake Duncan, Duncan, Okla.....	10.4	6,291	411	Oct. 1937	12.8	1937-50	63.4	524	3.93	5,427	4.01	5,537
93	Boomer Creek.....	Boomer Lake, Stillwater, Okla.....	8.67	2,812	292	Mar. 1925	10.25	1925-35	[1] 60	[1] 171	1.93	2,522	1.97	2,574
95	Trib. to Deep Fork Creek.....	Hiwassee Lake, Arcadia, Okla.....	4.29	2,341	185	Apr. 1936	14	1936-50	[1] 60	[1] 183	3.05	3,986	3.11	4,064
98	Caddo Creek.....	Ardmore Club Lake, Ardmore, Okla.....	3.91	1,797	134	Dec. 1922	15.5	1922-38	40.7	153	2.52	2,234	2.57	2,278
99	Caddo Creek.....	Ardmore City Lake, Ardmore, Okla.....	[1] 3	3,500	200	1894	43	1894-1937	[1] 60	280	2.17	2,836	2.21	2,888
100	Trib. to East Peavine Creek...	Byars Club Lake, Byars, Okla.....	2.55	507	69	1904	46	1904-50	[1] 60	136	1.16	1,516	1.21	1,581
102	Clay Creek.....	Bellevue Reservoir, Bellevue, Tex.....	1.44	131	36	1888	50	1888-1938	[1] 60	46	.64	836	.67	875
103	Holliday Creek.....	Lake Wichita, Wichita Falls, Tex.....	1.33	14,030	2,050	1900	25	1900-25	[1] 60	500	.15	196	.154	201
91	Trib. to Washita River.....	J. J. Harrison Stock Pond, Lindsay, Okla...	.81	349	47	Feb. 1932	18	1932-50	[1] 60	67	4.59	5,998	4.68	6,116
235	Trib. to Little Washita River.	Katy & J. R. Barbour Pond, Chickasha, Okla.	.67	59.9	10.4	Sept. 1935	19.7	1935-55	[1] 75	18.1	1.37	2,238	1.43	2,338
92	Bois d'Arc Creek.....	Gelmers Stock Pond, Blackwell, Okla.....	.31	3.74	2.86	Oct. 1939	1	1939-40	[1] 65	.31	1.00	1,416	1.20	1,699
101	Bois d'Arc Creek.....	Harris Stock Pond, Blackwell, Okla.....	.21	12.63	3.25	Apr. 1938	2.5	1938-40	[1] 65	.26	.50	708	.53	750
	Red Hills:													
200	Medicine Lodge River.....	Kiowa, Kans.....	914	--	--	--	12.32	1938-50	--	--	--	980	--	1,213
106	Elm Fk. of No. Fk. of Red River.....	Mangum, Okla.....	834	--	--	--	9.73	1938-47	--	--	--	1,571	--	1,945
105	Wolf Creek.....	Lipscomb, Tex.....	697	--	--	--	6.94	1938-45	--	--	--	463	--	573
107	Washita River.....	Cheyenne, Okla.....	640	--	--	--	8.87	1938-47	--	--	--	1,123	--	1,391
104	Mulberry Creek.....	Brice, Tex.....	530	--	--	--	1.83	1950-51	--	--	--	1,759	--	2,069
112	Beaver Creek.....	Santa Rosa Lake, Vernon, Tex.....	334	15,755	1,525	Oct. 1929	18.2	1929-48	[1] 60	4,187	.69	902	.73	954
119	Elm Creek.....	Lake Ft. Phantom Hill, Abilene, Tex.....	330	76,966	4,246	Oct. 1938	14.8	1938-53	36	2,654	.54	423	.55	431
201	Barnitz.....	Arapaho, Okla.....	247	--	--	--	2.32	1947-49	--	--	--	914	--	1,075
108	Bitter Creek.....	Lake Sweetwater, Sweetwater, Tex.....	108.8	13,810	752	Feb. 1930	11.8	1930-41	[1] 60	523	.40	523	.41	536
118	Elm Creek.....	Lake Abilene, Abilene, Tex.....	97.5	1,260	90	Aug. 1921	27	1921-48	[1] 60	539	.21	274	.22	287
116	East Elm Creek.....	Lake Hobart, Rocky, Okla.....	53.4	3,900	412	Nov. 1933	4	1933-37	[1] 60	312	1.46	1,908	1.52	1,986
117	Cedar Creek.....	Lake Kirby, Abilene, Tex.....	42.8	8,133	740	Sept. 1928	13.2	1928-41	[1] 60	515	.91	1,189	.93	1,215
110	Wanderers Creek.....	Lake Pauline, Quanah, Tex.....	42.1	7,000	600	1905	33	1905-38	[1] 60	1,960	1.41	1,843	1.45	1,895
121	California Creek.....	Hamlin Upper Lake, Hamlin, Tex.....	31.8	510	98	May 1917	24.6	1917-41	[1] 60	112	.14	183	.15	196
115	Turkey Creek.....	Lake Clinton, Canute, Okla.....	23.1	4,415	336	Dec. 1930	19.8	1930-50	65.9	1,213	2.65	3,804	2.70	3,875
127	Bachelor Creek.....	Rock Crusher Reservoir, Coleman, Tex.....	16.48	153	13	1910	31	1910-41	[1] 60	73	.14	183	.146	191
133	Trib. to Baylor Creek.....	Lake Childress, Childress, Tex.....	13.7	3,500	200	June 1922	16	1922-38	[1] 60	315	1.44	1,882	1.47	1,921
122	Redbank Creek.....	Lake Lawn, Lawn, Tex.....	12.8	530	103	1911	30	1911-41	[1] 60	176	.46	601	.48	627
132	South Elm Creek.....	Lake Throckmorton, Throckmorton, Tex.....	11.32	1,343	139	Sept. 1918	35.7	1918-54	31.55	118	.29	199	.30	206
128	Indian Creek.....	Lake Scarborough, Coleman, Tex.....	10.6	2,153	122	May 1923	17	1923-40	51.41	146	.81	907	.83	926
120	North Hubbard Creek.....	Lake Diller, Albany, Tex.....	8.29	400	66	1913	28	1913-41	[1] 60	40	.17	222	.173	226
109	Salt Creek.....	Brook Hollow Lake, Memphis, Tex.....	3.2	400	40	June 1929	9	1929-38	[1] 60	36	1.25	1,634	1.28	1,673
130	Trib. to Pecan Bayou.....	R. G. Hollingsworth Stock Pond, Burkett, Tex.....	2.58	20	10	June 1937	3.7	1937-40	[1] 60	6	.66	862	.80	1,045
111	Trib. to Red River.....	Spring Lake, Vernon, Tex.....	2.5	45	17	1911	27	1911-38	[1] 60	20	.30	392	.34	444
113	Trib. to Broken Leg Creek.....	C. W. Lester Pond No. 1, Cheyenne, Okla....	2.03	42.4	7.2	June 1945	4	1945-49	[1] 60	19.6	2.41	3,149	2.54	3,319
254	Medicine Lodge Creek.....	Lake Medicine, Medicine Lodge, Kans.....	1.84	365	32.5	Aug. 1929	20.6	1929-40	98.52	75	3.64	7,811	3.71	7,961
126	Trib. to Pecan Bayou.....	Buffalo (Knox) Tank, Burkett, Tex.....	1.71	33	10	1900	41	1900-41	[1] 60	4	.06	78	.065	85
124	Mud Creek.....	Santa Anna Lake, Santa Anna, Tex.....	1.05	766	76	May 1923	17	1923-40	45.2	21	1.18	[1] 1,162	1.20	1,181
131	Trib. to Redbank Creek.....	Stith Lake, Lawn, Tex.....	1.01	102	19	Aug. 1926	14.6	1926-41	[1] 60	9	.63	823	.65	849
125	Mukewater Creek.....	Old Santa Anna Lake, Santa Anna, Tex.....	.87	153	21	Jan. 1910	30.5	1910-40	[1] 60	35	1.31	1,712	1.34	1,751
129	Home Creek.....	Old Coleman City Lake, Coleman, Tex.....	.69	289	27	Nov. 1906	33.6	1906-40	[1] 60	15	.67	876	.68	887
114	Trib. to Broken Leg Creek.....	C. W. Lester Pond No. 2, Cheyenne, Okla....	.63	16.3	3.7	June 1944	5	1944-49	[1] 60	3.2	1.02	1,333	1.07	1,398
233	Quartermaster Creek.....	Ted Dean Pond No. 2, Cheyenne, Okla.....	.164	15.8	2.16	1941	14	1941-55	88.0	2.40	1.06	2,032	1.08	2,070
123	Trib. to Jim Ned Creek.....	Zimmerle Stock Pond, Lawn, Tex.....	.13	1.12	.4	1916	25	1916-41	[1] 60	.32	.10	131	.12	157
192	Nine Mile Creek.....	Ted Dean Pond No. 1, Cheyenne, Okla.....	.0359	1.08	.32	1944	11	1944-55	91.0	.27	.69	1,368	.72	1,427
	Sandstone Hills:													
135	Clear Boggy Creek.....	Caney, Okla.....	732	--	--	--	7.94	1943-51	--	--	--	689	--	766
134	Polecat Creek.....	Heyburn, Okla.....	129	--	--	--	7.18	1944-51	--	--	--	1,821	--	2,129
138	Salt Creek.....	Lake Okmulgee, Okla.....	39.2	10,355	559	Apr. 1928	22	1928-50	[1] 60	459	.53	693	.55	719
136	Coon Creek.....	Wewoka Lake, Wewoka, Okla.....	15.72	4,961	357	July 1925	28.6	1925-54	[1] 60	604	1.39	1,856	1.43	1,869
139	Euchee Creek.....	Lake Sapulpa, Sapulpa, Okla.....	8.57	1,094	94	1913	33.5	1913-46	68.48	252	.88	1,312	.93	1,387
140	Beamore Creek.....	Holdenville City Lake, Holdenville, Okla...	8.3	9,844	415	June 1931	18.8	1931-50	[1] 60	814	5.22	6,821	5.33	6,965
137	Salt Creek.....	Wetumka Lake, Wetumka, Okla.....	3.88	2,076	175	Jan. 1931	23.2	1931-54	[1] 60	178	1.98	2,587	2.02	2,640
141	Prettywater Creek.....	Prettywater Lake, Sapulpa, Okla.....	2.40	344	22	Mar. 1936	10.75	1936-46	[1] 60	22	.85	1,111	.89	1,163
	South Texas Coastal Plain:													
77	San Antonio River.....	Falls City, Tex.....	2,071	--	--	--	5.97	1927-33	--	--	--	105	--	1[illegible]
251	Trib. to San Antonio River....	Baker Lake, Sumerset, Tex.....	3.10	251	46.4	Sept. 1950	4.95	1950-55	48.06	23	1.50	1,570	1.55	1,622
252	Trib. to Hondo Creek.....	Sirianni Lake, Moore, Tex.....	.747	80.3	13.7	Feb. 1951	4.54	1951-55	45.6	3.80	1.12	1,112	1.14	1,132
253	Trib. to Bonito Creek.....	Smith Pond, Jourdanton, Tex.....	.188	6.41	1.64	Apr. 1953	2.40	1953-55	27.75	.81	1.80	1,088	1.89	1,14[illegible]
	Southern Rocky Mountains:													
188	Antelope Creek.....	Levinson Reservoir, Kent, Tex.....	248	804	102	1929	11	1929-40	[1] 60	121	.045	59	.048	63
227	Bonito Creek and Kraut Gulch..	Bonito Reservoir, Capitan, N. Mex.....	40	1,180	42	June 1931	9	1931-40	[1] 60	30	.083	108	.136	[1] 178
	West Cross Timbers:													
24	West Fork Trinity River.....	Eagle Mountain Reservoir, Ft. Worth, Tex...	809	420,000	9,847	Mar. 1934	5	1934-39	[1] 60	29,000	1.44	1,882	1.50	1,960
21	Mercer Creek.....	Lake Eanes, Comanche, Tex.....	13.57	1,313	125	May 1926	20.3	1926-40	45.0	92	3.34	3,274	3.44	3,372
20	Mine Creek.....	Nashville Reservoir, Nashville, Ark.....	10.3	181	39	Mar. 1931	10.3	1931-41	[1] 60	53	.50	653	.94	1,228
22	Paint Creek.....	Philpeco Lake, Pioneer, Tex.....	8.95	183	29	Apr. 1925	15.9	1925-41	[1] 60	10	.07	91	.08	105
23	Town Creek.....	T & P Reservoir, Weatherford, Tex.....	6.18	370	50	May 1930	8.5	1930-38	61.0	42	.79	1,050	.84	1,116
19	Big Classes Creek.....	Carter Lake, Madill, Okla.....	1.70	865	73	1936	13	1936-49	[1] 60	28	1.26	1,647	1.29	1,686

[1] Estimated

wide range of water discharges were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(11) Fourche Maline River, Red Oak, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 11, 1940, to February 21, 1951, by Tulsa District, Corps of Engineers. Fifteen samplings were used. Single sample taken in each of 1 to 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(12) Poteau River, Cauthron, Ark., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 28, 1939, to May 8, 1950, by Tulsa District, Corps of Engineers. Twenty samplings were used. Single sample taken in each of 3 verticals at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(13) Poteau River, Wister, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 23, 1938, to February 27, 1950, by Tulsa District, Corps of Engineers. Forty-five samplings used. Single sample taken in each of 2 to 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(14) Saline River, Dierks, Ark., (63, 17, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from May 24, 1938, to April 30, 1947, by Tulsa District, Corps of Engineers. Eight samplings covering a wide range of water discharges were used. Single sample taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler.

(15) Lake Winona, Little Rock, Ark., (26, 34, 64). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey May 1950. Twenty-two ranges.

(16) Bayou Cocodrie, Clearwater, La., (63 and unpublished data by USGS). Suspended load. Sampling done from October 1952 to September 1953 by U. S. Geological Survey, Austin, Tex. and sediment load summarized by months. Samples obtained with U. S. D-43 sampler. An estimate of the long-term average annual sediment production for this watershed was made by assuming that the annual suspended-sediment load, in tons, is proportional to average annual discharge to the 1.5 power. Average annual discharge data, for the 10 years, October 1, 1941, to September 30, 1950, used in making this estimate, was obtained from U. S. Geological Survey water-supply papers.

(17) Blue River, Blue, Okla., (64, 63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 10, 1936, to September 5, 1950, by Tulsa District, Corps of Engineers. One hundred and one samplings were used. Sixty-eight samplings prior to June 7, 1947, were composed of single samples in each of 3 verticals, taken at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler. Thirty-three samplings after June 7, 1947, consisted of 3 vertical depth-integrating samples obtained with U. S. D-43 sampler.

(18) Little River, Wright City, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from March 2, 1945, to March 28, 1949, by Tulsa District, Corps of Engineers. Eight samplings covering a wide range of water discharges were used. Single sample taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler.

(19) Carter Lake, Madill, Okla., (54, 64). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey made November 1949. Five ranges.

(20) Nashville Reservoir, Nashville, Ark., (64 and unpublished data from SCS reconnaissance-sedimentation survey July 1941). Water-supply reservoir. Five ranges.

(21) Lake Eanes, Comanche, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey September 1946. Twelve ranges.

(22) Philpeco Lake, Pioneer, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey. February 1941. Eight ranges.

(23) T. & P. Reservoir, Weatherford, Tex., (6, 40). Former water-supply reservoir. Now used for recreation only. Data from Soil Conservation Service detailed sedimentation survey November 1938. Sixteen ranges. Eight sediment samples taken.

(24) Eagle Mountain Reservoir, Fort Worth, Tex., (13, 26). Flood-control and water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1939, and contour (5-ft. interval) survey made in 1952 by a Fort Worth engineering consultant. Net drainage area excludes drainage area of Bridgeport Reservoir which lies upstream from Eagle Mountain Reservoir.

(25) Denton Creek, Roanoke, Tex., (60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from November 2, 1946, to July 14, 1951, by Fort Worth District Corps of Engineers. Three hundred and sixty-four samplings were used. Single sample taken in each of 2 to 4 verticals at or near the surface. Samples obtained with U. S. Department of Agriculture (Texas-type) bottle sampler.

(26) Lake Dallas, Dallas, Tex., (26, 40). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey September 1938. Twenty-six ranges. This lake will be inundated by U. S. Army Corps of Engineers Garza-Little Elm Reservoir constructed immediately downstream.

(27) Lake Erie, Handley, Tex. Industrial reservoir. Data from Soil Conservation Service

reconnaissance-sedimentation survey April 1939. Twenty measurements.

(28) Variety Club Lake, Bedford, Tex., (44). Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey May 1950. Four ranges.

(29) San Gabriel River, Circleville, Tex., (60). Suspended load. Sampling done from June 7, 1924, to October 31, 1929, by Texas Board of Water Engineers and Soil Conservation Service, Austin, Tex. One thousand eight hundred and seventy-two samples collected in groups of 1 to 3 or more daily within the surface foot, preferably at 0.6 depth. Samples obtained with U. S. Department of Agriculture (Texas-type) bottle sampler.

(30) Hamilton City Lake, Hamilton, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1941. Twenty-eight ranges.

(31) Lake Waco, Waco, Tex., (10, 26, 38). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation surveys of February 1935, February 1936, and December 1947. Thirty-six ranges. In 1947, 326 acre-feet of water impounded behind silt bars was unavailable for use.

(32) Meridian Lake, Meridian, Tex. Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey April 1948. Seven ranges.

(33) Lake Merritt, Goldthwaite, Tex. Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey, May 1940. Twelve ranges. Four sediment samples taken.

(34) Lometa Reservoir, Lometa, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Nine ranges.

(35) Pedernales River, Johnson City, Tex., (1, 17, 60, 61). Suspended load. Sampling done from August 1, 1942, to September 30, 1950, by Texas Board of Water Engineers and Soil Conservation Service, Austin, Tex. Two thousand eight hundred and fifty-five samples collected in groups of from 1 to 3 or more daily within the surface foot, preferably at 0.6 depth. Samples obtained with U. S. Department of Agriculture (Texas-type) bottle sampler.

(36) Medina Lake, San Antonio, Tex., (26, 40). Irrigation reservoir. Data from Soil Conservation Service detailed sedimentation surveys of January 1937 (60 ranges) and May 1948 (41 ranges). The reservoir is drawn down 50 feet or more annually and was completely drained in 1948. Sediment has had frequent opportunity to compact. Average dry weight of 28 samples taken in 1937 was 61 pounds per cubic foot; 11 samples taken in 1948 had an average dry weight of 75 pounds per cubic foot.

(37) J. S. Wall Stock Pond, Brady, Tex. Stock pond. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1941.

(38) Helms Tank, Llano, Tex. Stock pond. Data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Five ranges.

(39) Moss Ranch Pond (South). Llano, Tex. Stock pond. Data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Four ranges.

(40) Moss Ranch Stock Pond (West) Llano, Tex. Stock pond. Data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Six ranges.

(41) Big Elm Creek, Temple, Tex., (14, 60). Suspended load. Sampling done from March 1934 to June 1936 by U. S. Geological Survey. Minimum of 1 sample per day, with 2 to 10 per day during changing stages. Samples collected with U. S. Geological Survey vertical depth-integrating bottle sampler, at 3 verticals.

(42) Big Elm Creek, Buckholts, Tex., (14, 60). Suspended load. Sampling done from March 1934 to June 1936 by U. S. Geological Survey. Minimum of 1 sample per day, with 2 to 10 per day during changing stages. Samples collected with U. S. Geological Survey vertical depth-integrating bottle sampler, at 3 verticals.

(43) North Elm Creek, Ben Arnold, Tex., (14, 60). Suspended load. Sampling done from March 1934 to June 1936 by U. S. Geological Survey. Minimum of 1 sample per day, with 2 to 10 per day during changing stages. Samples collected with U. S. Geological Survey vertical depth-integrating bottle sampler, at 3 verticals.

(44) East Fork Trinity River, Rockwall, Tex., (61). Suspended load. Unpublished data from Corps of Engineers. Sampling done from November 1, 1946, to June 9, 1953, by Fort Worth District, Corps of Engineers. One thousand three hundred and thirty-two samplings were used. Single sample taken in each of 2 to 4 verticals at or near the surface. Sampling done with U. S. Department of Agriculture (Texas-type) bottle sampler.

(45) Lake Gibbons, Paris, Tex., (10, 23, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey March 1936. Eight ranges.

(46) Lake Crook, Paris, Tex., (10, 23, 26, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey, March 1936. Eighteen ranges.

(47) Rogers Lake, Rogers, Tex., (10, 41). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey September 1934. Contour method (2-ft. interval). Original.

(48) Farmersville (New) Reservoir, Farmersville, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1939. Twenty-two measurements.

(49) Mountain Creek Reservoir, Dallas, Tex., (11, 26). Industrial reservoir. Data from detailed range survey made by Ebasco Services, Inc., New York, N. Y., in November and December 1946. Twelve ranges.

(50) Bachman Reservoir, Dallas, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey 1939. Three ranges.

(51) White Rock Reservoir, Dallas, Tex., (10, 6, 26, 42, 40). Former water-supply reservoir now used for recreation. Data from Soil Conservation Service detailed sedimentation survey April 1935. Thirteen ranges. Eight sediment samples taken.

(52) Ennis Reservoir System, Ennis, Tex. Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey, December 1950. Twenty-one ranges. Lake Clark built in 1940 downstream. Lake Clark spillway 2 feet higher than Club Lake which is now submerged. Data based on combined drainage area, surface area, capacity, and sediment volume of both lakes. Annual sediment-contribution rates were computed separately for each lake and then combined to obtain the average for the system as a whole.

(53) Terrell Club Lake, Terrell, Tex. Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1939. Eighteen measurements.

(54) Terrell City Lake, Terrell, Tex., (41, 56). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey December 1949. Ten ranges. Eight sediment samples taken.

(55) Kaufman Lakes (old and new) Kaufman, Tex. Water-supply reservoirs. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1939. Twenty-nine measurements. All data are based on combined capacities, drainage areas, surface areas, and sediment deposits of both reservoirs.

(56) Murphy Lake, Crandall, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Four ranges.

This dam was rebuilt with Soil Conservation Service assistance, completed September 1954. Sediment pool elevation was not changed. New flood pool capacity, in addition to that shown above, is 938 acre-feet. Total area at flood pool elevation 208 acres.

(57) Lake Halbert, Corsicana, Tex., (6, 26, 33, 41). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey September 1949. Twenty-one ranges. Seven sediment samples taken.

(58) Magnolia Lake, Corsicana, Tex., (33, 41). Former water-supply reservoir now used for recreation. Data from Soil Conservation Service detailed sedimentation survey September 1949. Eight ranges.

(59) Burke Neck Lake, Corsicana, Tex., (33, 41). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey September 1949. Three ranges.

(60) Lower Beaton Lake, Corsicana, Tex., (33). Recreational reservoir. Data from Soil Conservation Service detailed sedimentation survey September 1949. Five ranges.

(61) Odell Lake, Hubbard, Tex. Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey July 1949.

(62, 63, 64, 65, 66) Hubbard City Lakes, Hubbard, Tex., (55). Water-supply reservoirs built in series on same stream with the upstream dam built first. Data from Soil Conservation Service reconnaissance surveys May 1949. Reservoir 1, record 62, is farthest upstream; reservoir 5, record 66, is farthest downstream.

(67) Lake Dawson, Dawson, Tex. Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Five ranges.

(68) Greenville Club Lake, Greenville, Tex. Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey 1937.

(69) Cottonwood Reservoir, McKinney, Tex. Former railroad water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Storage depleted by 1922.

(70) Bird Creek, Avant, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from August 18, 1945, to May 1, 1951, by Tulsa District, Corps of Engineers. Twenty-two samplings were used. Depth-integrated samples taken at 3 verticals with U. S. D-43 sampler.

(71) Caney Creek (Little Caney River) Copan, Okla., (63, 17, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from March 23, 1944, to September 17, 1951, by Tulsa District, Corps of Engineers. Sixty-four samplings were used. Forty samplings prior to June 5, 1947, consisted of samples at 3 verticals, collected with U. S. Department of Agriculture (Texas-type) bottle sampler at or near middepth. Twenty-four samplings since June 5, 1947, consist of 3 vertical depth-integrated samples collected with U. S. D-43 sampler.

(72) Lower Parks Reservoir, Balmorhea, Tex., (2). Irrigation reservoir. Unpublished data from Bureau of Reclamation detailed sedimentation surveys of November 1939 and April 1948. Five-foot contour interval.

(73) Aguja Reservoir, Toyahvale, Tex., (2). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey August 1940. Four ranges.

(74) Cottonwood Reservoir, Fabens, Tex., (47). Detention reservoir. No permanent storage. Data from Soil Conservation Service detailed sedimentation survey July 1954. Contour method of survey with 2-foot contour interval. Two reservoir sediment samples taken.

(75) Rattlesnake Reservoir, Fabens, Tex., (47). Detention (dry) reservoir. Data from Soil Conservation Service detailed sedimentation survey July 1954. Two-foot contours. Sediment-contributing area does not include area above Roberts Reservoir (record 76). Seven-foot riser added on drawdown tube in early 1954 had not affected sediment trapped at time of survey since no runoff had occurred. Two reservoir-sediment samples obtained.

(76) Roberts Reservoir, Fabens, Tex., (47). Detention (dry) reservoir. Data from Soil Conservation Service detailed sedimentation survey July 1954. Two-foot contours. Area at date of survey 24 acres. Six-foot riser added on drawn-down structure in early 1954 had not affected sediment trapped at time of survey since no run-off had occurred. Two reservoir sediment samples taken.

(77) San Antonio River, Falls City, Tex., (1, 60). Suspended load. Sampling done from September 13, 1927, to August 31, 1933, by Texas Board of Water Engineers and Soil Conservation Service. Two thousand two hundred and thirty-one samplings were used. Each sampling consisted of samples taken at 3 verticals, with U. S. Department of Agriculture (Texas-type) bottle sampler.

(78) Stillwater Creek, Stillwater, Okla., (25, 63, 60). Suspended load. Sampling done from October 1, 1934, to December 31, 1937, by U. S. Geological Survey. Minimum of 1 sample per day, with 2 to 10 per day during changing stages. Samples collected with U. S. Geological Survey vertical depth-integrating bottle sampler, at 3 verticals.

(79) Council Creek near Stillwater, Okla., (25, 63, 60). Suspended load. Sampling done from April 1, 1934, to December 31, 1937, by U. S. Geological Survey. Minimum of 1 sample per day, with 2 to 10 per day during changing stages. Samples collected with U. S. Geological Survey vertical bottle depth-integrating sampler, at 3 verticals.

(80) West Fork Brushy Creek near Stillwater, Okla., (25, 63, 60). Suspended load. Sampling done from October 1, 1934, to December 31, 1937, by U. S. Geological Survey. Minimum of 1 sample per day, with 2 to 10 per day during changing stages. Samples collected with U. S. Geological Survey vertical bottle depth-integrating, sampler at 3 verticals.

(81) Little River near Norman, Okla. Suspended load. Data from unpublished records of U. S. Geological Survey. Sampling done from March 30, 1953, to May 27, 1954, by U. S. Geological Survey, Oklahoma City, Okla., with U. S. D-43 depth-integrating sampler. Twenty-five samplings were used. From 1 to 3 samples collected at each sampling.

(82) Little River, Tecumseh, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 9, 1944, to June 12, 1951, by Tulsa District, Corps of Engineers, U. S. Army. One hundred and seventy-two samplings were used. Each sampling consisted of samples taken in each of 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(83) Rush Creek, Purdy, Okla., (64, 63, 17, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from May 8, 1940, to September 1953 by Tulsa District, Corps of Engineers, who furnished the estimated average annual sediment-load data. Sampling method; a sample at each of 3 verticals, obtained at or near middepth with U. S. Department of Agriculture (Texas-type) bottle sampler.

(84) Cache Creek, Walters, Okla., (64, 63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from September 29, 1938, to June 12, 1951, by Tulsa District, Corps of Engineers. Forty-eight samplings were used. Single sample taken at 1 vertical, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(85) Little Wichita River, Archer City, Tex., (63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 14, 1938, to March 16, 1945, by Tulsa District, Corps of Engineers, U. S. Army. Fifty-seven samplings were used. Each sampling consisted of a sample taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler.

(86) Pond Creek, Fort Cobb, Okla., (64, 63, 16, 17, 18, 60, 61, and unpublished data from Corps of Engineers and USGS). Suspended load. Sampling done from May 18, 1943, to September 30, 1949. Sampling from May 18, 1943, to May 20, 1947, done by Tulsa District, Corps of Engineers. From May 1, 1947, to September 30, 1949, sampling done by U. S. Geological Survey, Oklahoma City and Stillwater, Okla. Intermittent sampling by Corps of Engineers. Daily sampling by U. S. Geological Survey. Nine hundred and thirteen samplings were used. Twenty-nine samplings taken by Corps of Engineers consisted of samples taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler. Eight hundred and eighty-four daily samplings taken by U. S. Geological Survey consisted of 2 depth-integrated samples collected with the D-43 sampler.

(87) Caddo Creek, Ardmore, Okla., (64, 63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 9, 1936, to October 25, 1949, by Tulsa District, Corps of Engineers. Fifty-three samplings were used. Forty-two samplings before July 3, 1947, consisted of single samples taken at 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler. Eleven samplings after July 3, 1947, consisted of 3 vertical depth-integrating samples obtained with U. S. D-43 sampler.

(88) Little River, Sasakwa, Okla., (63, 60, 61, and unpublished data by Corps of Engineers). Suspended load. Sampling done from October 26, 1943, to June 12, 1951, by Tulsa District, Corps of Engineers. One hundred and ninety-eight samplings were used. One hundred and sixty-five samplings prior to July 3, 1947, were 3 vertical depth-integrated samples obtained with U. S. D-43 sampler. Thirty-three samplings since July 3, 1947, consisted of single samples obtained with the U. S. Department of

Agriculture (Texas-type) bottle sampler at or near middepth.

(89) Black Bear Creek, Pawnee, Okla., (63, 60, 61). Suspended load. Unpublished data from Corps of Engineers. Sampling done from August 21, 1944, to July 14, 1953, by Tulsa District, Corps of Engineers, U. S. Army. Seventy-one samples were used. Fifty-one samples taken prior to July 3, 1947, were single samples taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler. Twenty samples taken after July 3, 1947, are 3 vertical depth-integrating samples obtained with U. S. D-43 sampler.

(90) Little River, below Hog Creek, Norman, Okla. Suspended load. Data from unpublished records of U. S. Geological Survey. Sampling done from April 3, 1953, to May 26, 1954, with U. S. D-43 depth-integrating sampler. One hundred and one samplings were used. The number of samples taken in any one sampling ranged from 2 to 27.

(91) J. J. Harrison Stock Pond, Lindsay, Okla., (43, 64). Flood-control farm lake. Data from Soil Conservation Service reconnaissance-sedimentation survey March 1950. Three ranges.

(92) Gelmer's Stock Pond, Blackwell, Okla., (64). Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey made September 1940. Seven ranges.

(93) Boomer Lake, Stillwater, Okla., (10, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey made June 1935. Nineteen ranges.

(94) Guthrie Reservoir, Guthrie, Okla., (10). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey made May 1935. Eleven ranges.

(95) Hiwassee Lake, Arcadia, Okla., (50, 64). Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey made April 1950. Six ranges.

(96) Shawnee Lake, Shawnee, Okla., (12, 26, 30, 64). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey made December 1947. Eleven ranges.

(97) Lake Duncan, Duncan, Okla., (26, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey made August 1950. Fourteen ranges.

(98) Ardmore Club Lake, Ardmore, Okla., (40, 64). Recreational reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey made June 1938.

(99) Ardmore City Lake, Ardmore, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey Nov. 27, 1937). Water-supply reservoir. Five ranges.

(100) Byars Club Lake, Byars, Okla., (32, 64). Recreational reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey made March 1950. Five ranges.

(101) Harris Stock Pond, Blackwell, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Sept. 1940). Six ranges.

(102) Bellevue Reservoir, Bellevue, Tex., (64 and unpublished data from SCS reconnaissance-sedimentation survey May 1938). Water-supply reservoir. Three ranges.

(103) Lake Wichita, Wichita Falls, Tex., (26, 62) Water-supply reservoir. Data from University of Texas reconnaissance-sedimentation survey 1925. Nine ranges.

(104) Mulberry Creek, Brice, Tex., (63, 16, 17, 18, 61, and unpublished data from USGS). Suspended load. Sampling done from June 2, 1950, to July 4, 1951, by U. S. Geological Survey, Austin, Tex. One hundred and fifteen samplings were used. Each sampling consisted of samples taken at 1 to 4 verticals with U. S. D-43 or DH-48 sampler.

(105) Wolf Creek, Lipscomb, Tex., (63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from May 19, 1938, to April 27, 1945, by Tulsa District, Corps of Engineers. Nineteen samplings were used. Single sample obtained at or near middepth with U. S. Department of Agriculture (Texas-type) bottle sampler.

(106) Elm Fork of North Fork of Red River, Mangum, Okla., (63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from September 30, 1938, to June 20, 1947, by Tulsa District, Corps of Engineers. Ninety-one samplings were used, consisting of a single sample taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler.

(107) Washita River, Cheyenne, Okla., (63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from May 22, 1938, to April 4, 1947, by Tulsa District, Corps of Engineers. Fifty-eight samplings were used. Single sample obtained at or near middepth with U. S. Department of Agriculture (Texas-type) bottle sampler.

(108) Lake Sweetwater, Sweetwater, Tex., (26 and unpublished data from SCS reconnaissance-sedimentation survey Dec. 1941). Water-supply reservoir. Thirteen ranges.

(109) Brook Hollow Lake, Memphis, Tex., (64 and unpublished data from SCS reconnaissance-sedimentation survey June 1938). Recreational reservoir. Four ranges.

(110) Lake Pauline, Quanah, Tex., (26, 64, and unpublished data from SCS reconnaissance survey June 1938). Water-supply reservoir. Four ranges.

(111) Spring Lake, Vernon, Tex., (64 and unpublished data from SCS reconnaissance-sedimentation survey May 1938). Recreational reservoir. Three ranges.

(112) Santa Rosa Lake, Vernon, Tex., (26, 64). Water-supply reservoir. Data from unpublished reconnaissance-sedimentation survey data

of January 1948. Raising of spillway. Range method with total of 9 ranges.

(113) C. W. Lester Pond No. 1, Cheyenne, Okla., (53, 64). Stock pond. Data from Soil Conservation Service reconnaissance-sedimentation survey made June 1949. Five ranges.

(114) C. W. Lester Pond No. 2, Cheyenne, Okla., (53, 64, and unpublished data from SCS reconnaissance-sedimentation survey made in June 1949). Stock pond. Five ranges.

(115) Lake Clinton, Canute, Okla., (19, 64, 40). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation surveys made June 1938 and November 1950. Fifty-three ranges.

(116) Lake Hobart, Rocky, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made in Nov. 1937). Water-supply reservoir. Four ranges.

(117) Lake Kirby, Abilene, Tex., (26 and unpublished data from SCS reconnaissance-sedimentation survey Nov. 1951). Water-supply reservoir. Eight ranges.

(118) Lake Abilene, Abilene, Tex., (26). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey September 1948. Nine ranges.

(119) Lake Fort Phantom Hill, Abilene, Tex., (26, 35). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey August 1953. Thirty-six ranges. Approximately one-third of drainage area is behind other upstream reservoirs, and is not included in sediment-contributing area.

(120) Lake Diller, Albany, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey July 1941. Three ranges.

(121) Hamlin Upper Lake, Hamlin, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey December 1941. Seven ranges.

(122) Lake Lawn, Lawn, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance survey March 1941. Six ranges.

(123) Zimmerle Stock Pond (North) Lawn, Tex. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Three ranges.

(124) Santa Anna Lake, Santa Anna, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey April 1940. Eleven ranges.

(125) Old Santa Anna Lake, Santa Anna, Tex. Former water-supply reservoir. Not in use at date of survey. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey June 1940. Eight ranges.

(126) Buffalo Tank (Knox Tank), Burkett, Tex. Stock pond. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Five ranges.

(127) Rock Crusher Reservoir, Coleman, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Eight ranges.

(128) Lake Scarborough, Coleman, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey May 1940. Twenty ranges.

(129) Old Coleman City Lake, Coleman, Tex. Former water-supply reservoir. Not in use at date of survey. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey May 1940. Six ranges.

(130) R. G. Hollingsworth Stock Pond, Burkett, Tex. Stock pond. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey February 1941. Five ranges.

(131) Stith Lake, Lawn, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey March 1941. Six ranges.

(132) Lake Throckmorton, Throckmorton, Tex., (49). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey June 1954. Nine ranges. Five sediment samples taken.

(133) Lake Childress, Childress, Tex., (64 and unpublished data from Soil Conservation Service reconnaissance survey, June 1938). Water-supply reservoir. Four ranges.

(134) Polecat Creek, Heyburn, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from February 18, 1944, to April 23, 1951, by Tulsa District, Corps of Engineers. Ninety-three samplings were used. Sixty-two samplings prior to July 25, 1947, consisted of single samples in each of 3 verticals, at or near middepth, obtained with U. S. Department of Agriculture (Texas-type) bottle sampler. Thirty-one samplings since July 25, 1947, consisted of 3 depth-integrated samples obtained with U. S. D-43 sampler.

(135) Clear Boggy Creek, Caney, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from October 1, 1943, to October 2, 1951, by Tulsa District, Corps of Engineers. One hundred and sixty-five samplings were used. Sixty-six samplings prior to July 1, 1947, consisted of single samples taken at 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler. Ninety-nine samplings after July 1, 1947, consisted of 3 vertical depth-integrated samples obtained with U. S. D-43 sampler.

(136) Wewoka Lake, Wewoka, Okla. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey made February 1954. Nine ranges.

(137) Wetumka Lake, Wetumka, Okla. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey made February 18, 1954. Eight ranges.

(138) Lake Okmulgee, Okmulgee, Okla., (10, 26, 52, 64). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey made April 1950. Seventeen ranges.

(139) Lake Sapulpa, Sapulpa, Okla., (21, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation surveys December 1946. 52 ranges.

(140) Holdenville City Lake, Holdenville, Okla., (26, 51, 63). Water-supply reservoir. Data from Soil Conservation Service reconnaissance-sedimentation survey made April 1950. Twelve ranges.

(141) Prettywater Lake, Sapulpa, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Dec. 1946). Water-supply reservoir. Five ranges.

(142) Gaines Creek, Krebs, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from February 28, 1944, to July 24, 1951, by Tulsa District, Corps of Engineers. Twenty-seven samplings were used. Fourteen samplings prior to May 19, 1947, consisted of single samples taken in each of 3 verticals, at or near middepth, with U. S. Department of Agriculture (Texas-type) bottle sampler. Thirteen samplings since May 19, 1947, consisted of 3 vertical depth-integrated samples obtained with U. S. D-43 sampler.

(143) Dirty Creek, Warner, Okla., (63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 11, 1940, to August 8, 1946, by Tulsa District, Corps of Engineers. Sixty-three samplings were used. Depth-integrated samples taken at 3 verticals with U. S. D-43 sampler.

(144) Lake Claremore, Claremore, Okla., (64, 40, and unpublished data from SCS detailed sedimentation survey made Oct. 1939). Water-supply reservoir. Thirty-three ranges.

(145) Kennamer Lake, Chelsea, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Oct. 1939). Recreation reservoir. Twenty measurements.

(146) Taft Lake, Taft, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Sept. 1947). Water-supply reservoir. Nine ranges.

(147) Lake McAlester, McAlester, Okla., (10, 26, 64, and unpublished data from SCS reconnaissance-sedimentation survey made Sept. 1941). Water-supply reservoir. Fourteen ranges.

(148) Brown Lake, McAlester, Okla., (64, 59). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey July 1952. Fifteen ranges.

(149) Lake Carleton, Wilburton, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made July 1947). Recreational reservoir. Six ranges.

(150) State Fish Hatchery Lake, Claremore, Okla., (64). Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey 1939. Eighteen measurements.

(151) Navasota River, Easterly, Tex., (1, 60, 61). Suspended load. Sampling done from January 1, 1942, to September 30, 1952, by Texas Board of Water Engineers and Soil Conservation Service, Austin, Tex. One to three or more daily samples within the surface foot or at 0.6-foot depth. Samples obtained with U. S. Department of Agriculture (Texas-type) bottle sampler.

(152) Lavaca River, Edna, Tex., (1, 60, 61). Suspended load. Sampling done from September 1, 1945, to September 30, 1952, by Texas Board of Water Engineers and Soil Conservation Service, Austin, Tex. One to three or more samples daily within the surface foot or at 0.6-foot depth. Samples obtained with U. S. Department of Agriculture (Texas-type) bottle sampler.

(153) Corney Lake, Homer, La., (57 and unpublished data from SCS reconnaissance-sedimentation survey Nov. 1941). Recreational reservoir. Three ranges.

(154) Texarkana Lake, Texarkana, Tex., (64 and unpublished data from SCS reconnaissance-sedimentation survey June 1938). Water-supply reservoir. Four ranges.

(155) Kemp City Reservoir, Kemp, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Twenty-seven measurements.

(156) Mabank City Lake, Mabank, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Twenty measurements.

(157) Elkins Lake, Huntsville, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey July 1950. Eight ranges.

(158) Koon-Kreek Klub (Big Lake) Athens, Tex. Recreational reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Six ranges. Appreciable quantities of sediment do not reach lake because of swampy areas upstream which act as desilting basins. Twenty square miles of the drainage area is behind other reservoirs, and is not included in sediment-contributing area.

(159) Koon Kreek Klub (Old Lake), Athens, Tex. Recreational reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Three ranges. Swampy areas upstream act as desilting basins, reducing amount of sediment reaching lake.

(160) Kerens City Lake, Kerens, Tex., (46). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey July 1954. Eight ranges.

(161) Wortham Municipal Reservoir, Wortham, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service

reconnaissance-sedimentation survey April 1939. Twelve measurements.

(162) Wolf Creek Reservoir, Palestine, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey April 1939. Twenty-three measurements.

(163) Grand Saline Reservoir, Grand Saline, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey April 1938. Twenty-three ranges.

(164) Wills Point Reservoir, Wills Point, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey April 1938. Twenty-three ranges.

(165) Jenkins Pond, Mansfield, La. Water-supply reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey September 1954. Seven ranges.

(166) Loring Lake, Zwolle, La. Water-supply reservoir. Unpublished data from Soil Conservation Service detailed sedimentation survey September 1954. Nine ranges.

(167) Buffalo River, St. Joe, Ark., (63, 17, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 11, 1940, to April 14, 1952, by Little Rock District, Corps of Engineers. Thirty-two samplings were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(168) Strawberry River, Poughkeepsie, Ark., (63, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from February 21, 1939, to July 9, 1953, by Little Rock District, Corps of Engineers. Fifty-five samplings were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(169) Piney Fork Strawberry River, Evening Shade, Ark., (63, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 16, 1939, to July 9, 1953, by Little Rock District, Corps of Engineers. Thirty-five samplings were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(170) South Fork Little Red River, Clinton, Ark., (63, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 12, 1940, to May 13, 1953, by Little Rock District, Corps of Engineers. Thirty-seven samplings were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(171) Middle Fork Little Red River, Shirley, Ark., (63, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 17, 1939, to May 13, 1953, by Little Rock District, Corps of Engineers. Thirty-three samplings were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(172) Mulberry River, Mulberry, Ark., (63, 17, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 11, 1940, to March 18, 1953, by Little Rock District, Corps of Engineers. Fourteen samplings covering a wide range of water discharges were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(173) Strawberry River, Evening Shade, Ark., (63, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 16, 1939, to May 13, 1953, by Little Rock District, Corps of Engineers. Fifty-one samplings were used. Single sample taken in each of 1 to 3 verticals, usually at middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(174) Lake Scarbow, Pryor, Okla., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Oct. 1939). Recreational reservoir. Twenty-nine measurements.

(175) Lake Spavinaw, Spavinaw, Okla., (39, 26, 64). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey made July 1935. Twenty-two ranges.

(176) Greenleaf Lake, Muskogee, Okla., (26, 64, and unpublished data from SCS. reconnaissance-sedimentation survey made Nov. 1941). Water-supply reservoir. Six ranges.

(177) Lake Wedington, Fayetteville, Ark., (64, 57, 58, and unpublished data from SCS reconnaissance-sedimentation survey made Aug. 1947). Recreational reservoir. Nine ranges.

(178) Eureka Springs Reservoir, Eureka Springs, Ark., (64 and unpublished data from SCS reconnaissance-sedimentation survey June 1940). Water-supply reservoir. Five ranges.

(179) Wilson Reservoir, Fayetteville, Ark., (64 and unpublished data from SCS reconnaissance-sedimentation survey June 1940). Water-supply reservoir. Seven ranges.

(180) Lake Fort Smith, Mountainburg, Ark., (26, 64, and unpublished data from SCS reconnaissance-sedimentation survey made Apr. 1940). Water-supply reservoir. Five ranges.

(181) Lake Eastland, Eastland,Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey March 1941. Nine ranges.

(182) Lake Leon, Eastland, Tex. Power reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey March 1941. Seven ranges.

(183) Lake Eddleman, Graham, Tex., (48). Water-supply reservoir. Data from Soil Conservation Service detailed sedimentation survey May 1954. Eight ranges.

(184) Lake Miller, San Saba, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey March 1941. Five ranges.

(185) White Tank, Brownwood, Tex. Water-supply pond. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey, March 1941. Five ranges.

(186) Lake Bridgeport, Bridgeport, Tex., (13, 26, and unpublished data from SCS reconnaissance-sedimentation survey Feb. 1943). Water-supply reservoir. Eighteen ranges.

(187) Lake Mineral Wells, Mineral Wells, Tex., (26 and unpublished data from SCS reconnaissance-sedimentation survey Dec. 1941). Water-supply reservoir. Thirty-one measurements.

(188) Levinson Reservoir, Kent, Tex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance-sedimentation survey August 1940. Five ranges.

(189) Big Bayou Meto near Stuttgart, Ark., (63, 17, 18, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from January 16, 1951, to January 6, 1953, by Vicksburg District, Corps of Engineers. Nineteen samplings in a wide range of water discharges were used. Samples obtained with P-46, D-43, and DH-48 samplers.

(190) Petit Jean Creek, Danville, Ark., (63, 17, 18, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 8, 1940, to August 16, 1950, by Little Rock District, Corps of Engineers. Eleven samplings covering a wide range of water discharges were used. Single sample taken in each of 1 to 3 verticals, usually at 0.6 depth, using U. S. Department of Agriculture (Texas-type) sampler.

(191) Ute Creek, Bueyeros, N. Mex., (63, 15, 17, 18, 61, and unpublished data from SCS, Albuquerque, N. Mex.). Suspended load. Sampling done from 1949 to 1951 by U. S. Geological Survey. Daily sampling with U. S. depth-integrating hand sampler except during very low stages when the U. S. D-43 sampler was used. All samples obtained at 3 verticals.

(192) Ted Dean Pond No. 1, Cheyenne, Okla. Stock pond. Unpublished data from Soil Conservation Service detailed range-sedimentation survey made March 17, 1955. Seven ranges.

(193) Lake Kahola, Dunlap, Kans., (26, 64, and unpublished data from SCS reconnaissance-sedimentation survey made Sept. 1939). Municipal water supply for city of Emporia, Kans.

(194) Chase Pond, Morris County, Kans., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Nov. 1939).

(195) Parish Pond, Morris County, Kans., (64 and unpublished data from SCS reconnaissance-sedimentation survey made Nov. 1939).

(196) Lake El Dorado, Butler County, Kans., (64). Detailed sedimentation survey made by Soil Conservation Service, Lincoln, Nebr., April 29, 1937.

(197) Caney River, Elgin, Kans., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from April 26, 1940, to July 13, 1951, by Tulsa District, Corps of Engineers. Forty-six samplings were used. Thirty-six samplings prior to June 22, 1948, consist of single samples at 3 verticals, collected with U. S. Department of Agriculture (Texas-type) bottle sampler, at or near middepth. Ten samplings after June 5, 1947, consist of 3 vertical, depth-integrated samples collected with U. S. D-43 sampler.

(198) Bird Creek, Pawhuska, Okla., (63, 60, and unpublished data from Corps of Engineers). Suspended load. Sampling done from March 22, 1944, to July 1, 1945, by Tulsa District, Corps of Engineers. Ten samplings covering a wide range of water discharges were used. Single sample taken in each of 3 verticals, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(199) Hominy Creek, Skiatook, Okla., (63, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from March 22, 1944, to July 14, 1951, by Tulsa District, Corps of Engineers. Fifty-seven samplings were used. Most samples consisted of a single vertical sample taken at or near middepth with U. S. Department of Agriculture (Texas-type) bottle sampler. Others consisted of 3 vertical depth-integrated samples taken with U. S. D-43 sampler.

(200) Medicine Lodge River, Kiowa, Kans., (63, 15, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from May 25, 1938, to September 21, 1950, by Tulsa District, Corps of Engineers. Two hundred and twenty-seven samplings were used. Single sample taken at 1 vertical, at or near middepth, using U. S. Department of Agriculture (Texas-type) bottle sampler.

(201) Barnitz Creek, Arapaho, Okla., (64, 63, 16, 17, 61, and unpublished data from Corps of Engineers and USGS). Suspended load. Sampling done from April 5, 1947, to September 30, 1949, by U. S. Geological Survey and Tulsa District, Corps of Engineers. One hundred and seventeen samplings were used. One hundred and fourteen samplings by U. S. Geological Survey collected as a minimum of 1 sample per day, with 2 to 10 during changing stages. Sampler collected with U. S. D-43 sampler. Three samplings by Army Engineers consist of single samples at 3 verticals, obtained with U. S. Department of Agriculture (Texas-type) bottle sampler, at or near middepth.

(202) Ben P. Smith Pond, Holly Springs, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range-sedimentation survey made in March 1951. Three ranges.

(203) B. H. Honnesucker Pond, Slayden, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in January 1951. Four ranges.

(204) O. P. White Pond, Holly Springs, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in January 1951. Three ranges.

(205) Arkabutla Reservoir, Arkabutla, Miss., (5, 26). Flood-control reservoir. Data from range-sedimentation survey by Vicksburg District, Corps of Engineers, Department of the Army, December 13, 1947. Forty-eight ranges.

(206) Charles Dockery Pond, Eudora, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Four ranges.

(207) A. L. Rodman Pond, Arkabutla, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Nine ranges.

(208) A. S. Kyle Pond, Batesville, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Six ranges.

(209) Gayoso Lake, Horn Lake, Miss. Conservation lake. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Seven ranges.

(210) C. C. Stevenson Pond, Holly Springs, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Four ranges.

(211) Fletcher Hurdle Pond (South), Victoria, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Ten ranges.

(212) Fletcher Hurdle Pond (North), Victoria, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Eight ranges.

(213) G. B. Langston, Jr., Pond, Warsaw, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Four ranges.

(214) C. L. Patton Pond, Warsaw, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Eight ranges.

(215) Lake Woodland, Olive Branch, Miss. Conservation lake. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Five ranges.

(216) P. T. McAlexander Pond, Holly Springs, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in January 1951. Three ranges.

(217) Lee Johnson Pond, Holly Springs, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in January 1951. Six ranges.

(218) Lake Shahkoka, Olive Branch, Miss. Conservation lake. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Eight ranges.

(219) Agnes Jones Pond, Holly Springs, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in January 1951. Seven ranges.

(220) C. S. Hurdle Pond, Slayden, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in January 1951. Thirteen ranges.

(221) Dr. Bramlett Pond, Oxford, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Ten ranges.

(222) Henry W. Ramsey Pond, Oxford, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Six ranges.

(223) R. X. Williams Pond, Taylors, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Four ranges.

(224) C. D. Williams Pond, Oxford, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in March 1951. Five ranges.

(225) Ben O. Pettis Pond, Oxford, Miss. Conservation pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made in February 1951. Three ranges.

(226) Elk River, Tiff City, Mo., (63, 17, 60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from June 16, 1944, to May 13, 1950, by Tulsa District, Corps of Engineers. Sixty-nine samplings were used. Single sample at 1 vertical, at or near middepth, obtained with U. S. Department of Agriculture (Texas-type) bottle sampler.

(227) Bonito Reservoir, Capitan, N. Mex. Water-supply reservoir. Unpublished data from Soil Conservation Service reconnaissance range survey made in September 1940. Six ranges.

(228) Nimrod Lake, Nimrod, Ark., (26, 9, 64). Flood-control reservoir. Data from detailed sedimentation survey by Little Rock District, Corps of Engineers, Department of the Army, April 1950. Twenty-five ranges.

(229) Lake Fryer, Perryton, Tex. Recreational lake. Unpublished data from Soil Conservation Service reconnaissance sedimentation survey May 1947. Four ranges. Extensive delta deposits not measured.

(230) Buffalo Bayou, Houston, Tex., (60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from December 12, 1946, to August 4, 1954, by Fort Worth and Galveston Districts, Corps of Engineers. A total of 100 samplings were used. Samples were obtained with the U. S. Department of Agriculture (Texas-type) bottle sampler at varying depths.

(231) White Oak Bayou, Houston, Tex., (60, 61, and unpublished data from Corps of Engineers). Suspended load. Sampling done from January 11, 1946, to June 14, 1954, by Fort Worth and Galveston Districts, Corps of Engineers. Samples obtained with U. S. Department of Agriculture (Texas-type) bottle sampler at depths ranging from the surface to 1.0 foot.

(232) Brays Bayou, Houston, Tex., (61 and unpublished data from Corps of Engineers). Suspended load. Sampling done from December 12, 1946, to June 14, 1954, by Fort Worth and Galveston Districts, Corps of Engineers. Ninety-seven samplings were used. Samples obtained with the U. S. Department of Agriculture (Texas-type) bottle sampler at depths ranging from the surface to 1.0 foot.

(233) Ted Dean Pond No. 2, Cheyenne, Okla. Stock pond. Unpublished data from Soil Conservation Service range detailed sedimentation survey made March 31, 1955. Thirteen ranges.

(234) Blacklands Experimental Watershed Y, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1943, by Soil Conservation Service (now ARS). Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; hence no bed-load correction was considered necessary.

(235) Katy and J. R. Barbour Pond, Chickasha, Okla. Stock pond. Unpublished data from Soil Conservation Service detailed range sedimentation survey made May 24, 1955. Six ranges.

(236) Perry City Lake, Perry, Okla. Municipal water supply. Unpublished data from Soil Conservation Service detailed range sedimentation survey made May 1955. Twelve ranges. Six sediment samples taken.

(237) Blacklands Experimental Watershed J, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1943, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction made.

(238) Blackland Experimental Watershed D, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1943, by the Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(239) Blacklands Experimental Watershed W-1, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1947, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(240) Blacklands Experimental Watershed Y-2 Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1944, to December 31, 1947, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(241) Blacklands Experimental Watershed W-2, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1947, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(242) Blacklands Experimental Watershed A, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1943, by the Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(243) Blacklands Experimental Watershed W-8, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1941, by the Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(244) Blacklands Experimental Watershed Y-10, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1939, to December 31, 1941, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(245) Blacklands Experimental Watershed Y-6, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1940, to December 31, 1943, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with the USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(246) Blacklands Experimental Watershed W-10, Riesel, Tex., (28, 29, and unpublished data from ARS). Suspended load. Sampling done from January 1, 1940, to December 31, 1943, by Soil Conservation Service. Samples taken every 30 minutes during runoff. Depth-integrated samples taken with USDA bottle sampler. Samples taken in a concrete flume; no bed-load correction was made.

(247) Rudder Pond, Hext, Tex. Stock pond. Data from Soil Conservation Service detailed sedimentation survey, August 1955. Four ranges.

(248) Fress Pond, Sonora, Tex. Stock pond. Data from Soil Conservation Service detailed sedimentation survey August 1955. Six ranges.

(249) Thornton Lake, Boerne, Tex. Recreational lake. Data from Soil Conservation Service

detailed sedimentation survey August 1955. Six ranges.

(250) X.Q.Z. Ranch Pond, San Angelo, Tex. Recreational reservoir. Data from Soil Conservation Service detailed sedimentation survey August 1955. Four ranges. Two sediment samples.

(251) Baker Lake, Sumerset, Tex. Recreational lake. Data from Soil Conservation Service detailed sedimentation survey August 1955. Five ranges. Three sediment samples taken.

(252) Sirianni Lake, Moore, Tex. Recreational lake. Data from Soil Conservation Service detailed sedimentation survey September 1955. Three ranges. Two sediment samples taken.

(253) Smith Pond, Jourdanton, Tex. Stock pond. Data from Soil Conservation Service detailed sedimentation survey August 1955. Three ranges. Two sediment samples taken.

(254) Lake Medicine, Medicine Lodge, Kans. Reference 47. Recreational reservoir. Detailed sedimentation survey made by Soil Conservation Service, Lincoln, Nebr., October 1940. Twenty-two ranges. Six sediment samples taken.

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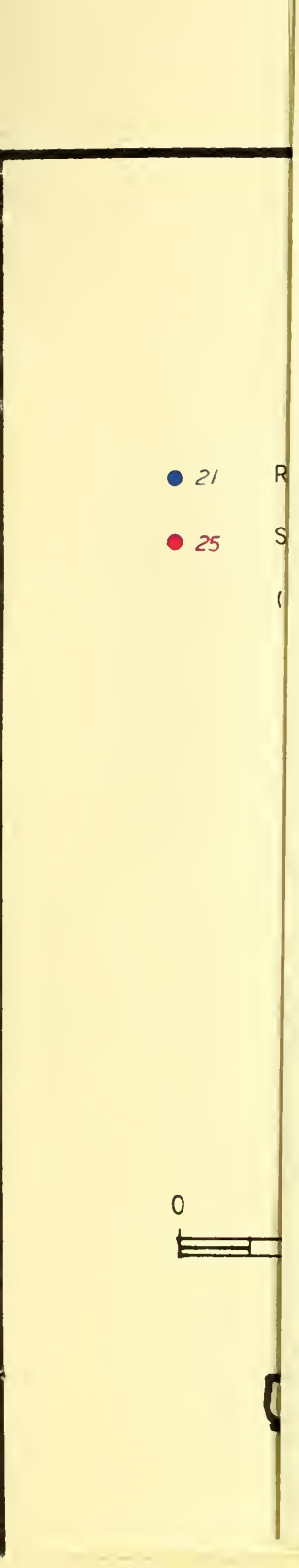
21
25
0

LEGEND

● 21 Reservoir Sedimentation Survey

● 25 Suspended Sediment Measurements

(Both shown in center of Drainage Area)

0 100 200

SCALE IN MILES

Figure 1

LOCATION OF SEDIMENT RECORDS BY PHYSIOGRAPHIC AREAS

ARKANSAS, LOUISIANA, OKLAHOMA, TEXAS

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE